

WELCOME

PUBLIC INFORMATION WORKSHOP

Metropolitan Phoenix Area, Arizona

FEDERAL AVIATION ADMINISTRATION



Purpose of Workshops

- As part of the community involvement process and in partnership and collaboration with the City of Phoenix, the Federal Aviation Administration (FAA) is hosting these workshops in accordance with Step Two of the agreement between the FAA and the City of Phoenix/certain historic neighborhood associations following the decision in *City of Phoenix, Arizona v. Huerta*, 869 F.3d 963 (D.C. Circuit 2017).
- The purpose of these workshops is to discuss comments received during the public workshops and comment period associated with Step One. Step One was intended to approximate pre-2014 flight routes for west flow departures from Phoenix Sky Harbor Airport.
- The workshops will provide information about the recent implementation of Step One and accept any additional comments for the FAA to consider in Step Two.
- The workshops will provide information about past and current flight routes in the greater Phoenix Area.

How the FAA Will Use Your Comments

- The FAA reviewed and analyzed the comments received during the February 2018 public comment period associated with Step One, and has begun considering potential conceptual airspace changes not addressed by the implementation of west flow departures routes under Step One.
- The FAA will review and analyze comments received at these workshops and during the Step Two public comment period. In addition, the FAA is continuing to consider comments received during Step One that relate to Step Two.
- Based on the comments received and other factors such as operational safety and efficiency, the FAA may initiate new airspace changes and complete an environmental review in accordance with applicable federal laws and FAA orders.
- The FAA is not committing to make any changes. The decision whether to implement potential airspace or route changes during Step Two will be at the FAA's sole discretion.

PHX

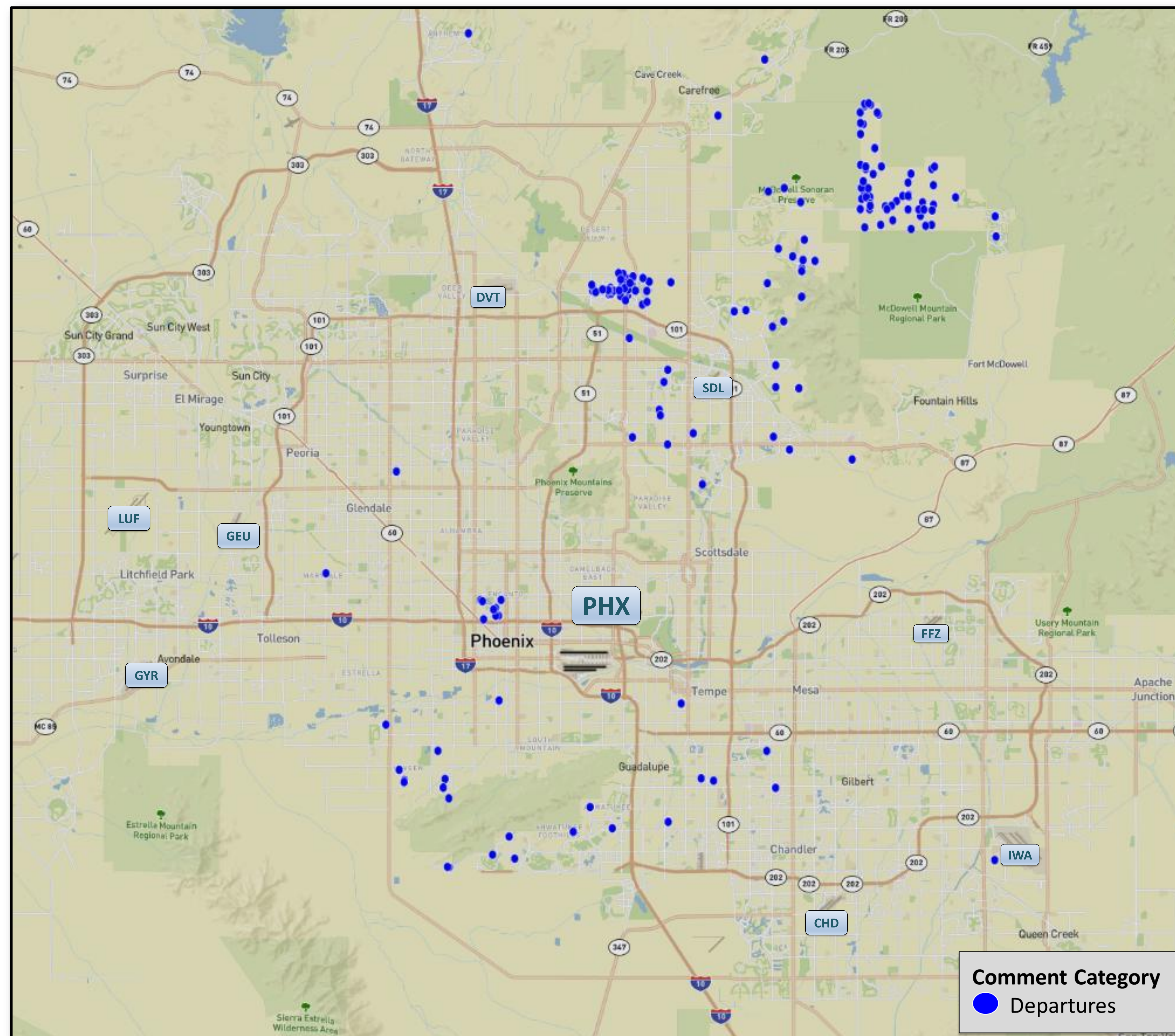
Phoenix Sky Harbor International Airport

Comments received during the Step 1 workshops about Step 2.

- **Departures** - A reference or comment directly related to departures that were either preexisting or were expected to occur with the implementation of the Step One procedures.
- There were 279 comments received in this category.
- *Note – Comment location dots in close proximity may overlap.*

Comment Category

● Departures

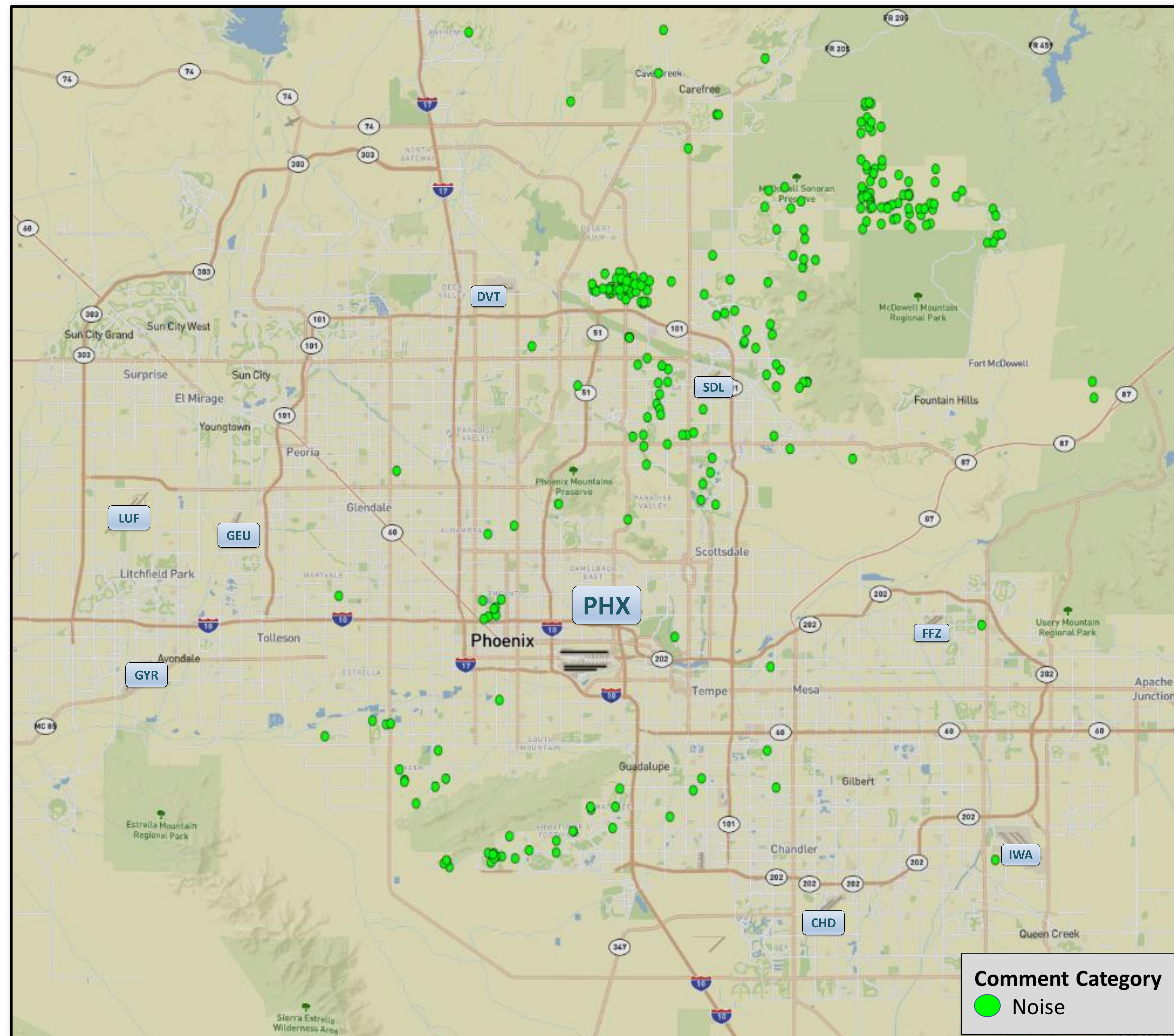


PHX

Phoenix Sky Harbor International Airport

Comments received during the Step 1 workshops about Step 2.

- **Noise** - A reference to noise directly related to aircraft that was either preexisting or was expected to occur with the implementation of the Step One procedures.
- There were 356 comments received in this category.
- *Note – Comment location dots in close proximity may overlap.*

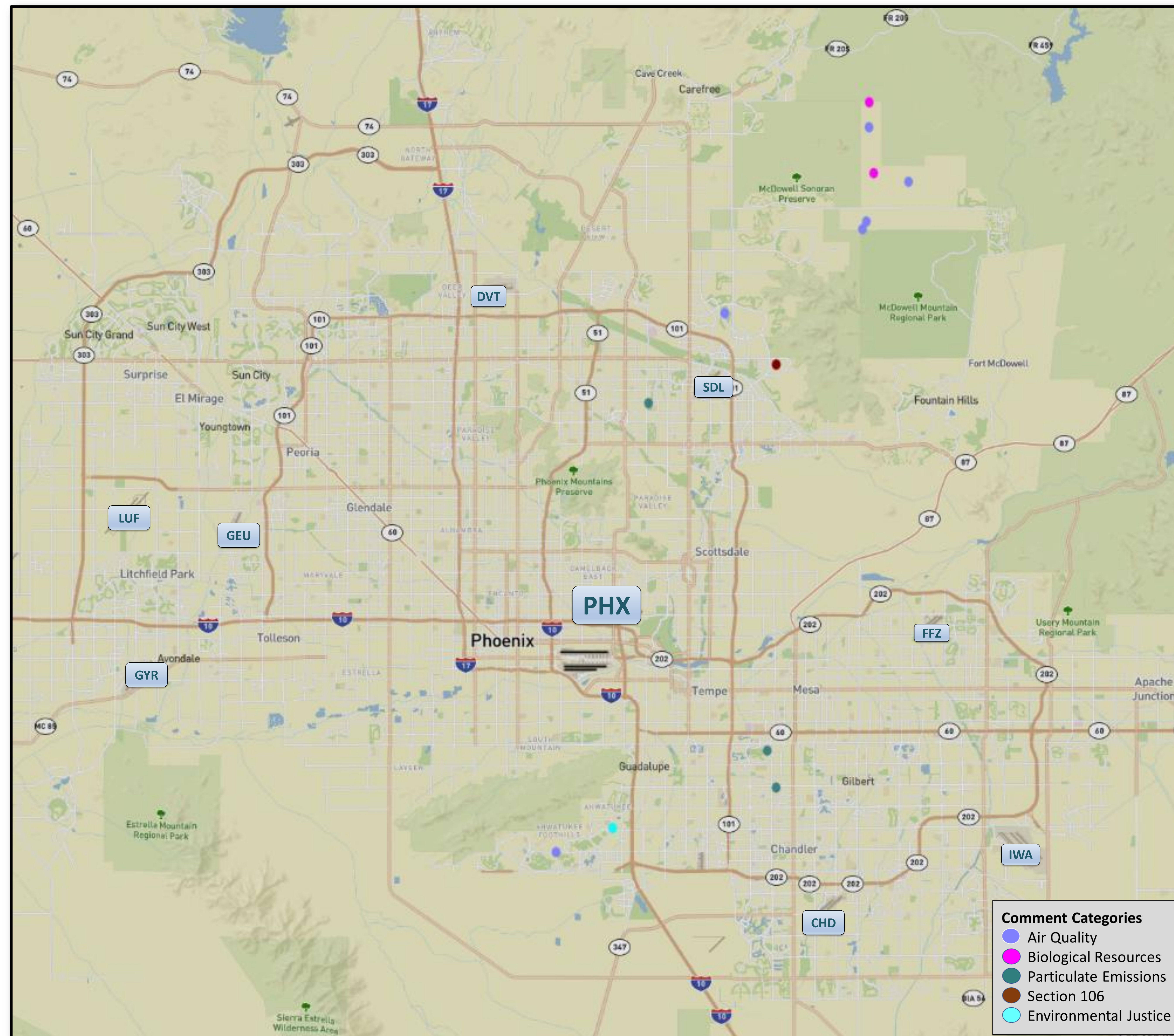


PHX

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Comments received during the Step 1 workshops about Step 2.

- **Air Quality** - A reference to airborne pollutants and/or claims of breathing issues caused by the introduction or existence of aircraft, etc.
- **Biological** - Referencing wildlife and/or habitats.
- **Emissions** - Pollutants directly related to jet exhaust, including soot, fuel (either visible residue or vapor odor), etc.
- **Environmental Justice** - References and/or claims to a decision to place flight paths or aircraft over low income or minority neighborhoods.
- **Section 106** - A reference to a specific resource or location that may require special consideration under Section 106 of the National Historic Preservation Act (historic or culturally significant properties).
- There were a total of 17 comments received in these categories, collectively.
- *Note – Comment location dots in close proximity may overlap.*

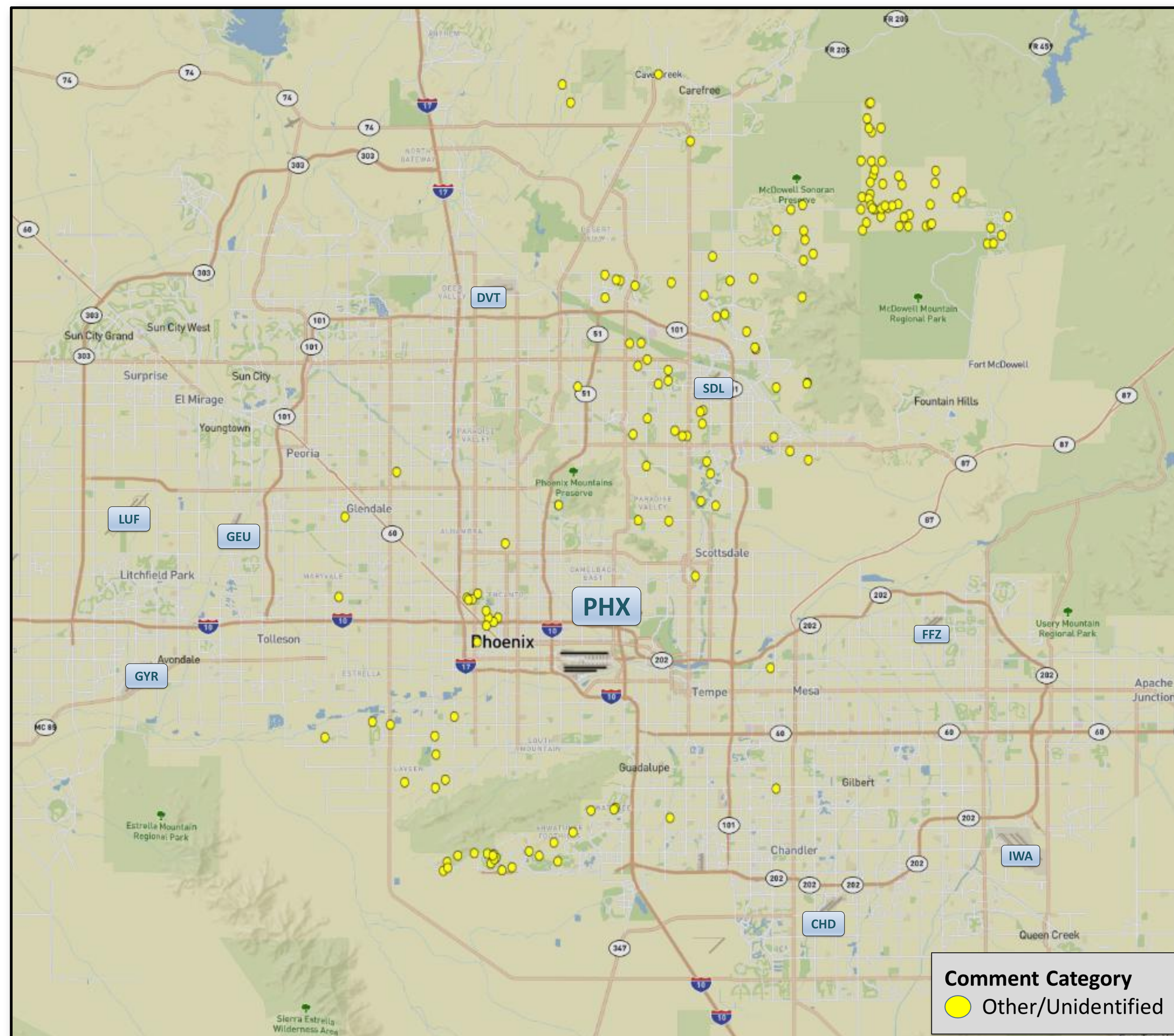


PHX

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Comments received during the Step 1 workshops about Step 2.

- **Other** - A comment or portion of a comment that did not fall into any of the other specific categories.
- There were 112 comments received in this category.
- *Note – Comment location dots in close proximity may overlap.*



PHX

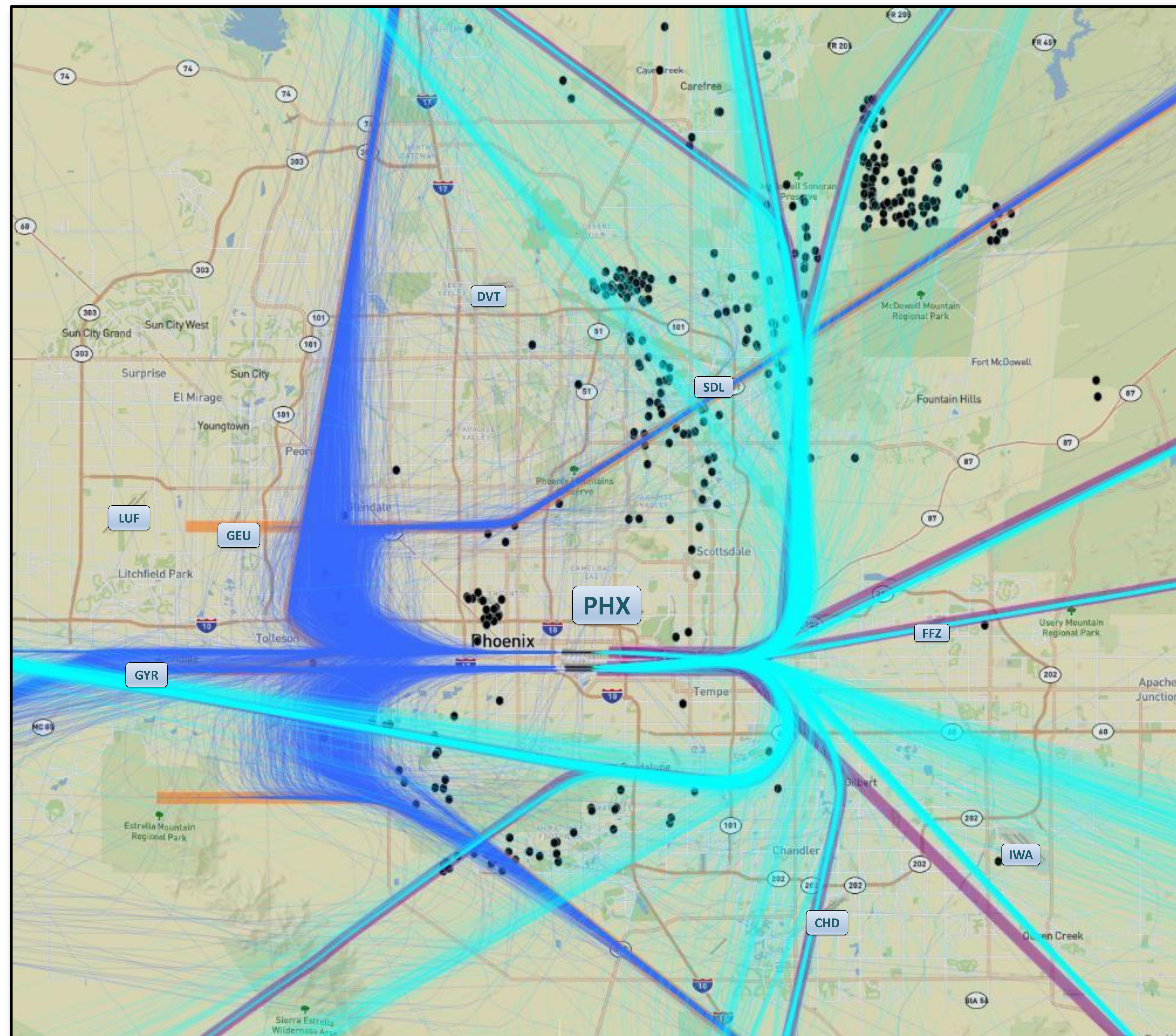
Phoenix Sky Harbor International Airport

East Flow Operations

- Existing flight tracks and current arrival and departure routes when flights from PHX are landing and departing to the east.
- The magenta and orange lines are approximations of flight routes. The lines, and their widths, are not intended to depict precise flight corridors or boundaries.
- There were 493 comments received for Step Two.
- Note – Comment location dots in close proximity may overlap.*

Comment Category
● All Categories

Arrival Routes
 Existing Arrival Tracks
 Departure Routes
 Existing Departure Tracks





Phoenix Sky Harbor International Airport

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● All Categories

- Arrival Routes
- Existing Arrival Tracks
- Departure Routes
- Existing Departure Tracks



PHX

Phoenix Sky Harbor International Airport

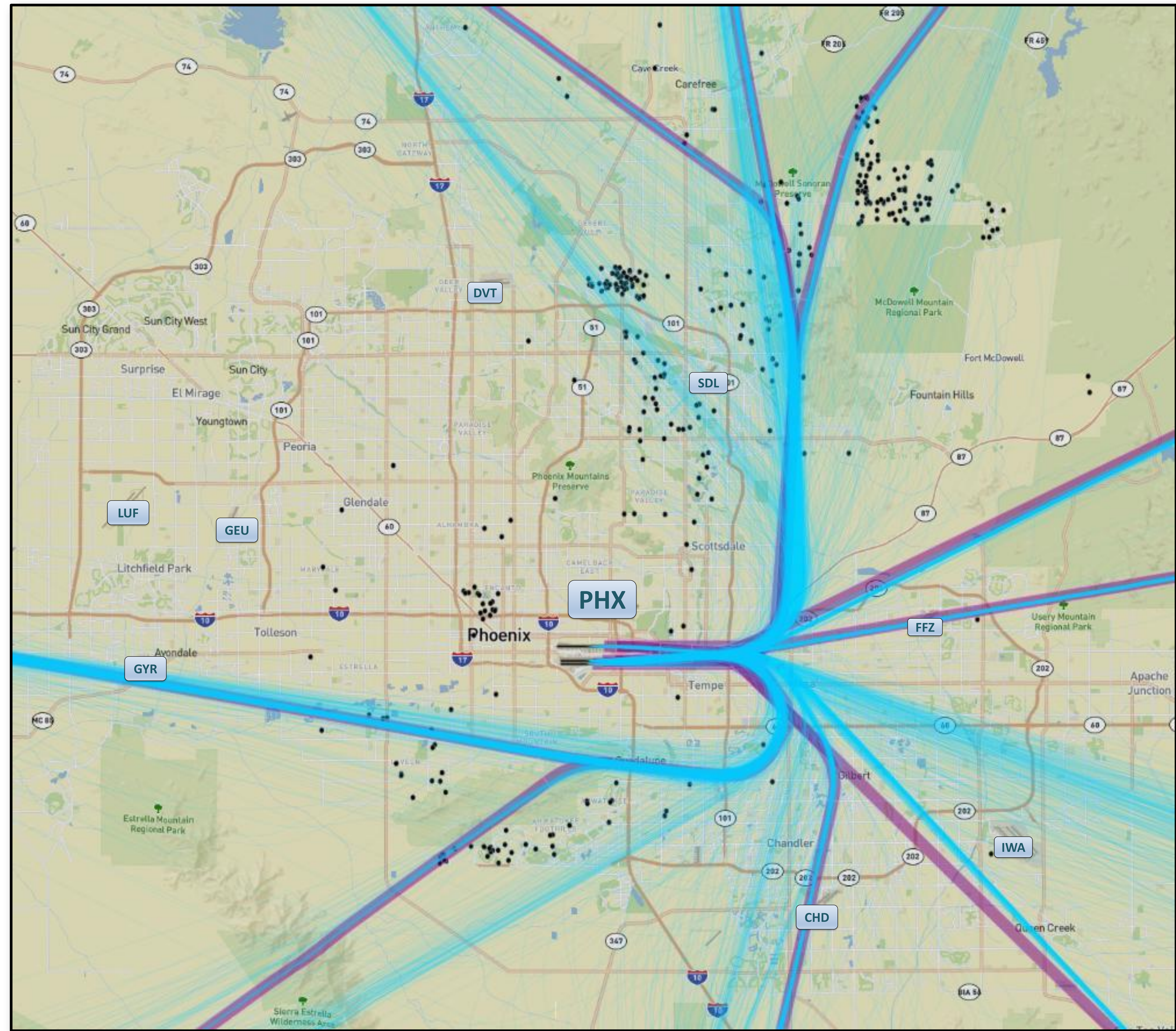
East Flow Departures

- Existing flight tracks and current departure routes when flights from PHX are departing to the east.
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Comment Category

● All Categories

Departure Routes
Existing Departure Tracks





- Existing flight tracks and current departure routes when flights from PHX are departing to the west.
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● All Categories

Existing Departure Tracks



PHX

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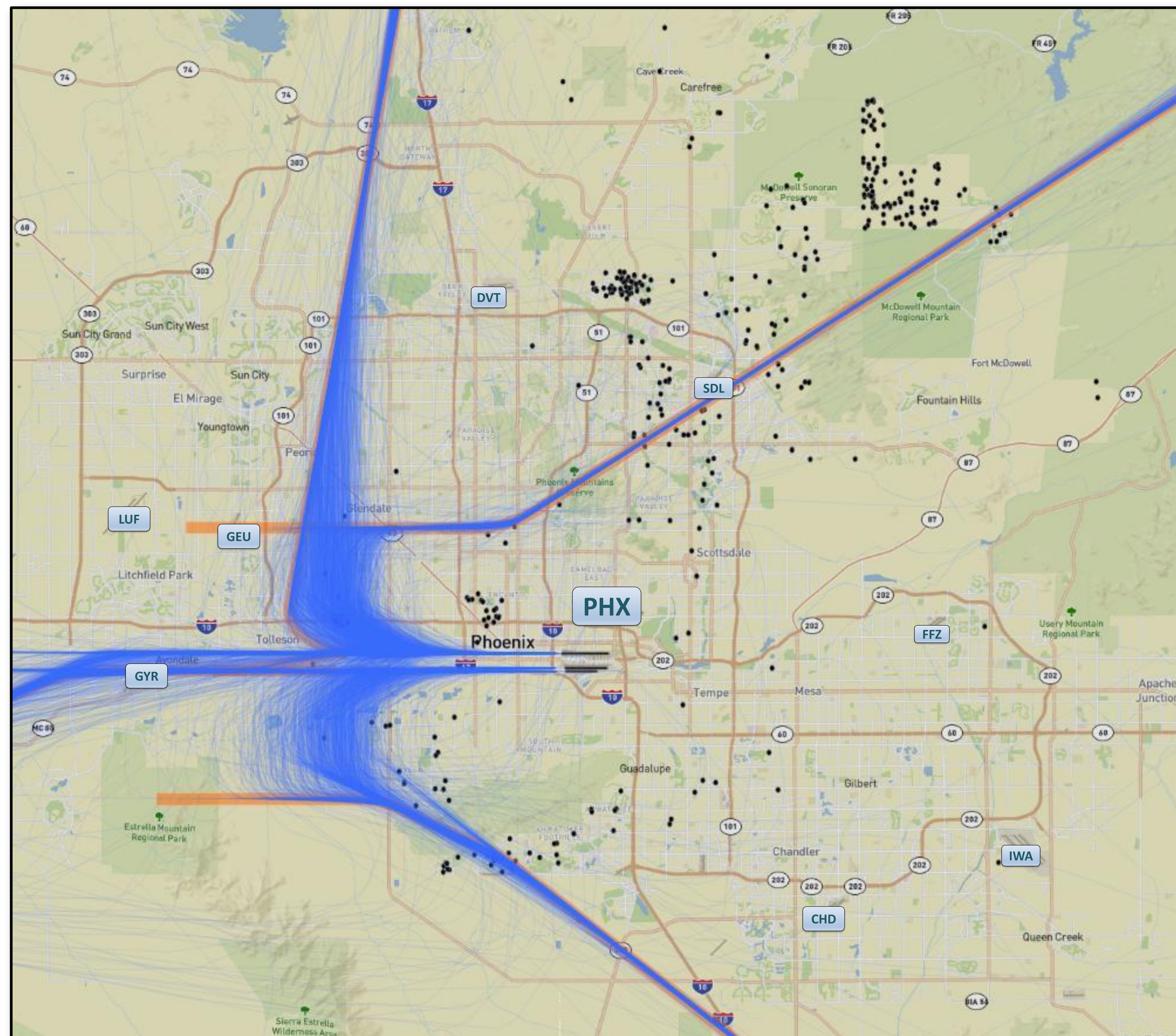
East Flow Arrivals

- Existing flight tracks and current arrival routes when flights from PHX are arriving to the east.
- The orange lines are approximations of flight routes. The lines, and their widths, are not intended to depict precise flight corridors or boundaries.
- There were 493 comments received for Step Two.
- Note – Comment location dots in close proximity may overlap.*

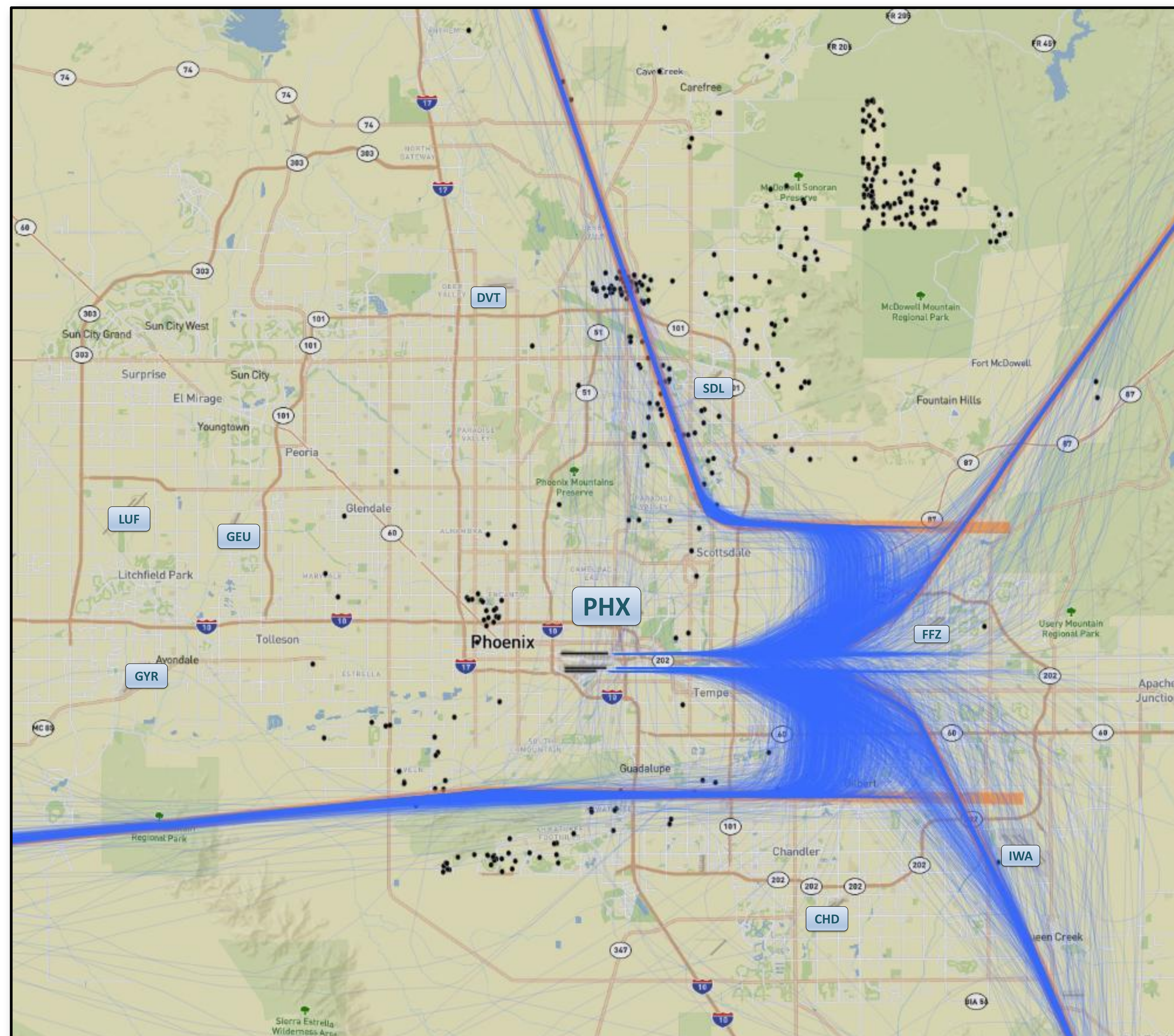
Comment Category

● All Categories

Orange line: Arrival Routes
Blue line: Existing Arrival Tracks



 Arrival Routes
 Existing Arrival Tracks



PHX

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East and West Flow Departures

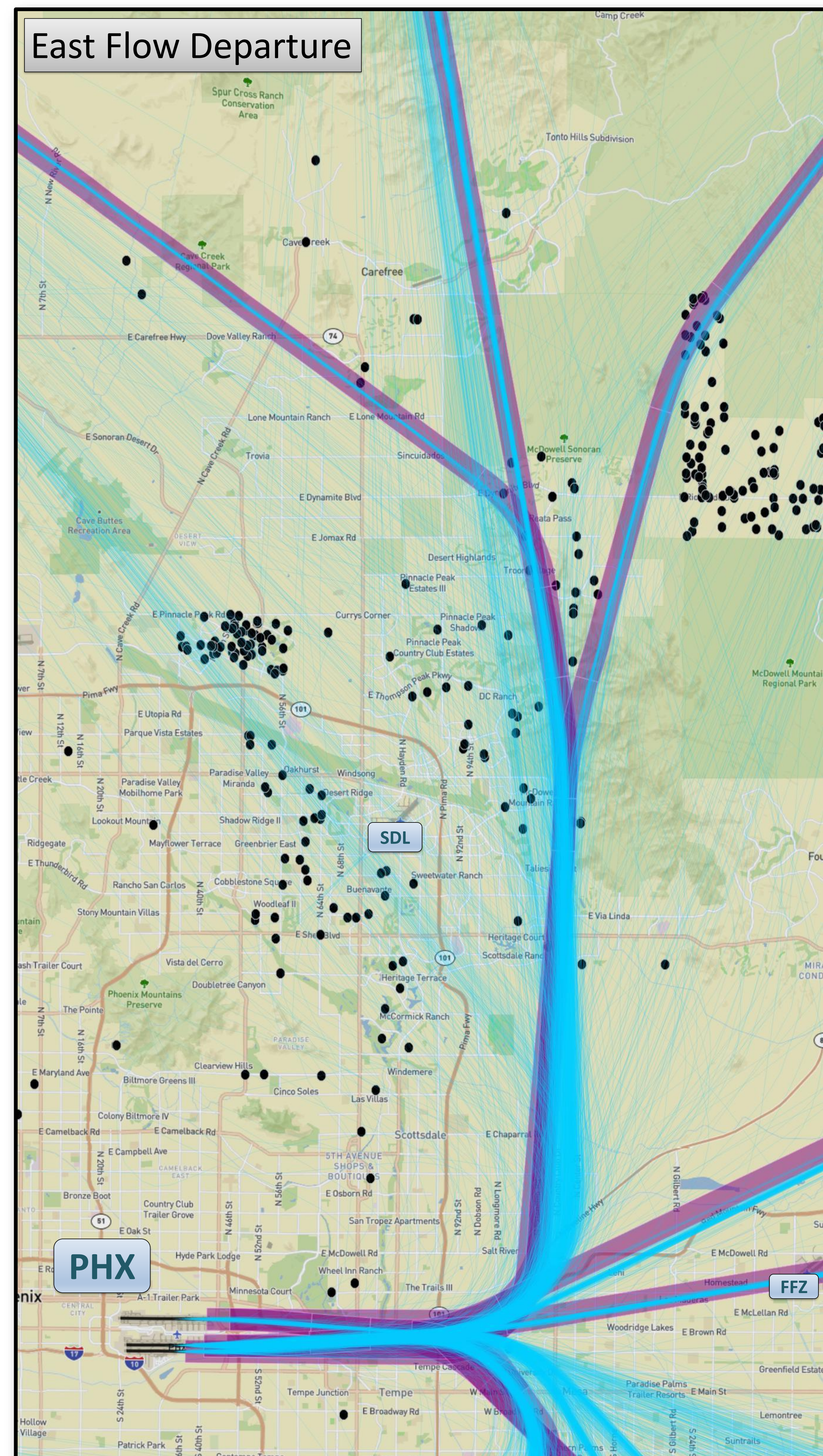
- Existing flight tracks and current departure routes.
- The magenta lines are approximations of flight routes. The lines, and their widths, are not intended to depict precise flight corridors or boundaries.
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Comment Category

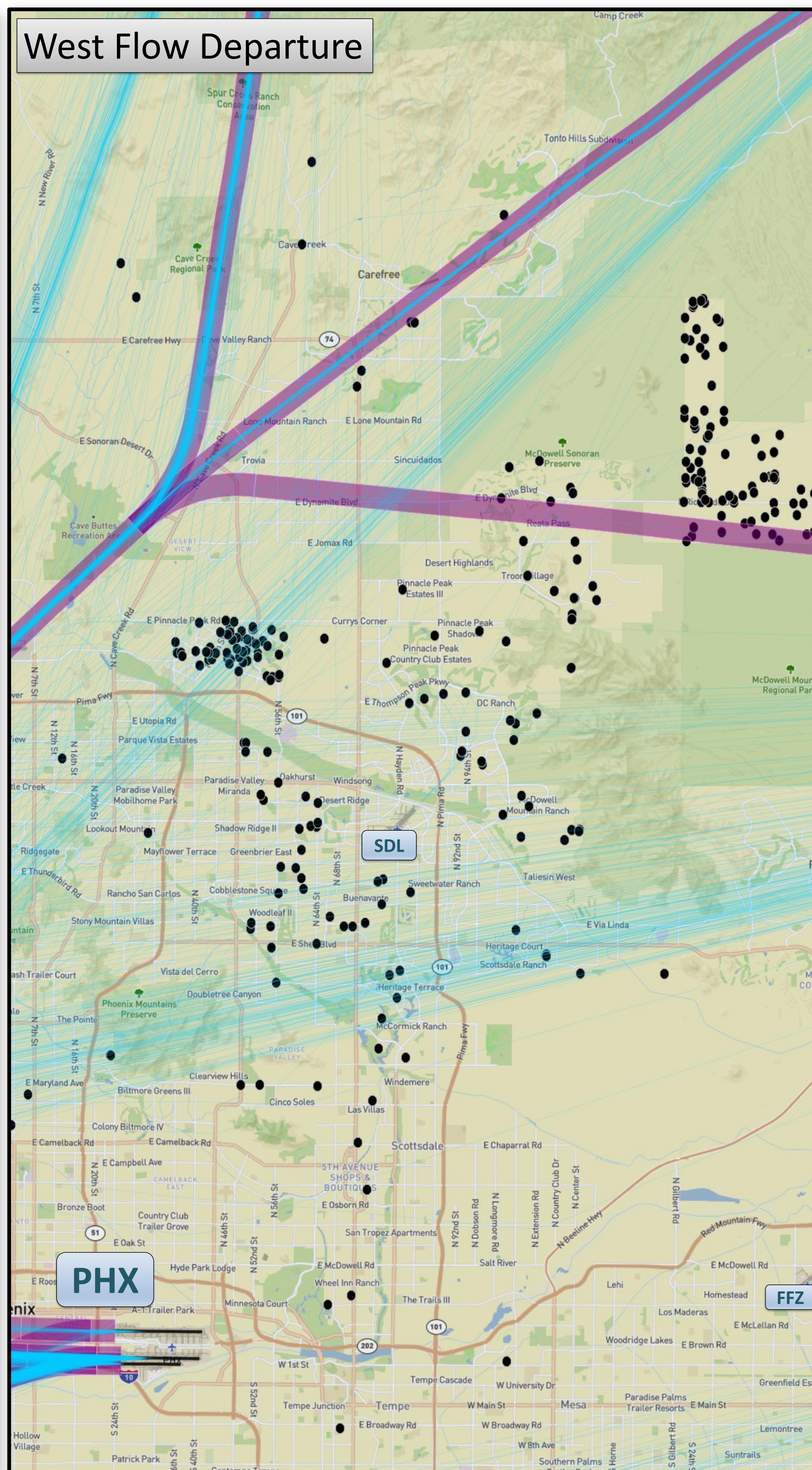
● All Categories

Departure Routes
Existing Departure Tracks

East Flow Departure



West Flow Departure





PHX

Phoenix Sky Harbor International Airport

East and West Flow Arrivals

- Existing flight tracks and current arrival routes.
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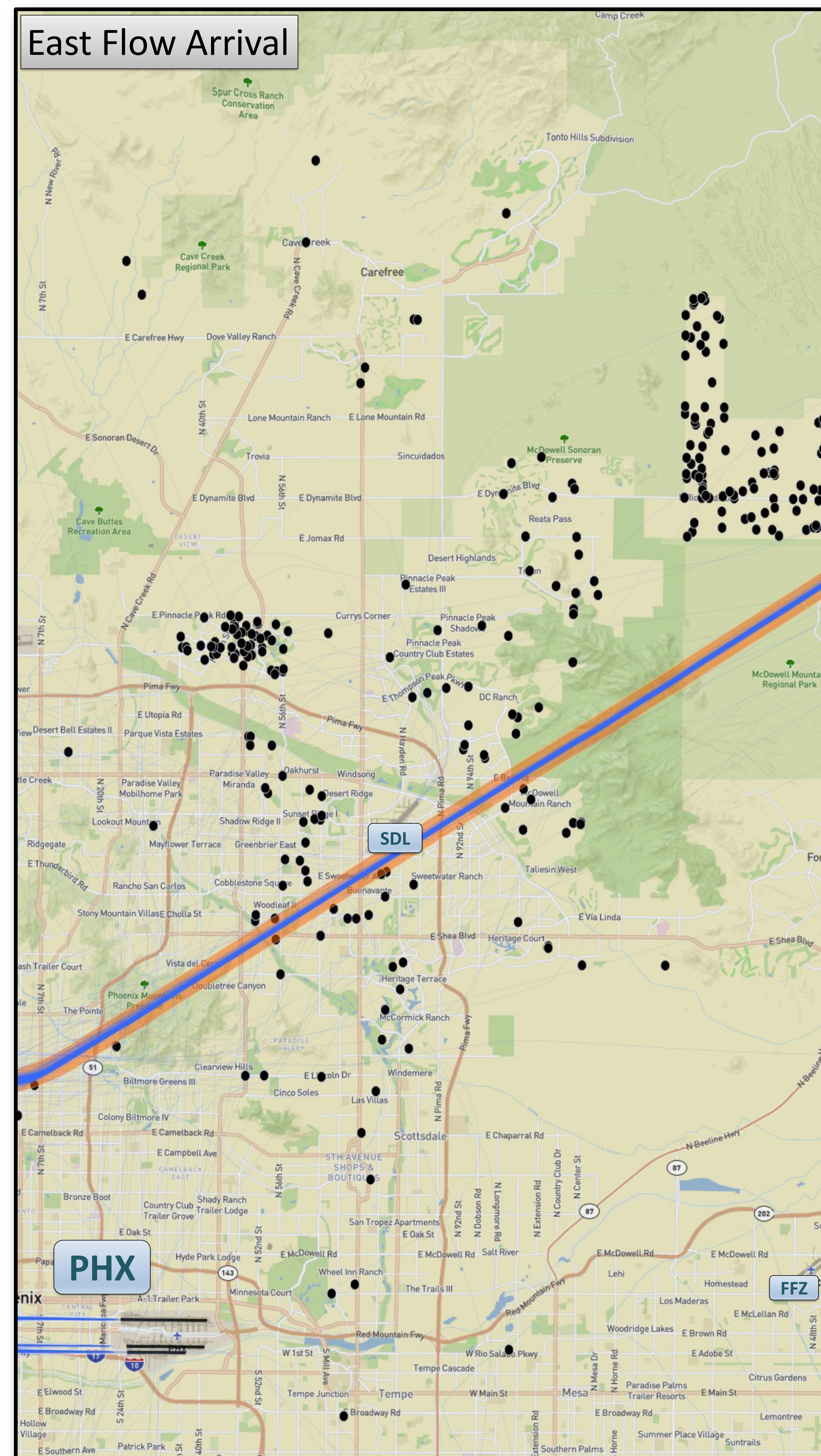
Comment Category

● All Categories

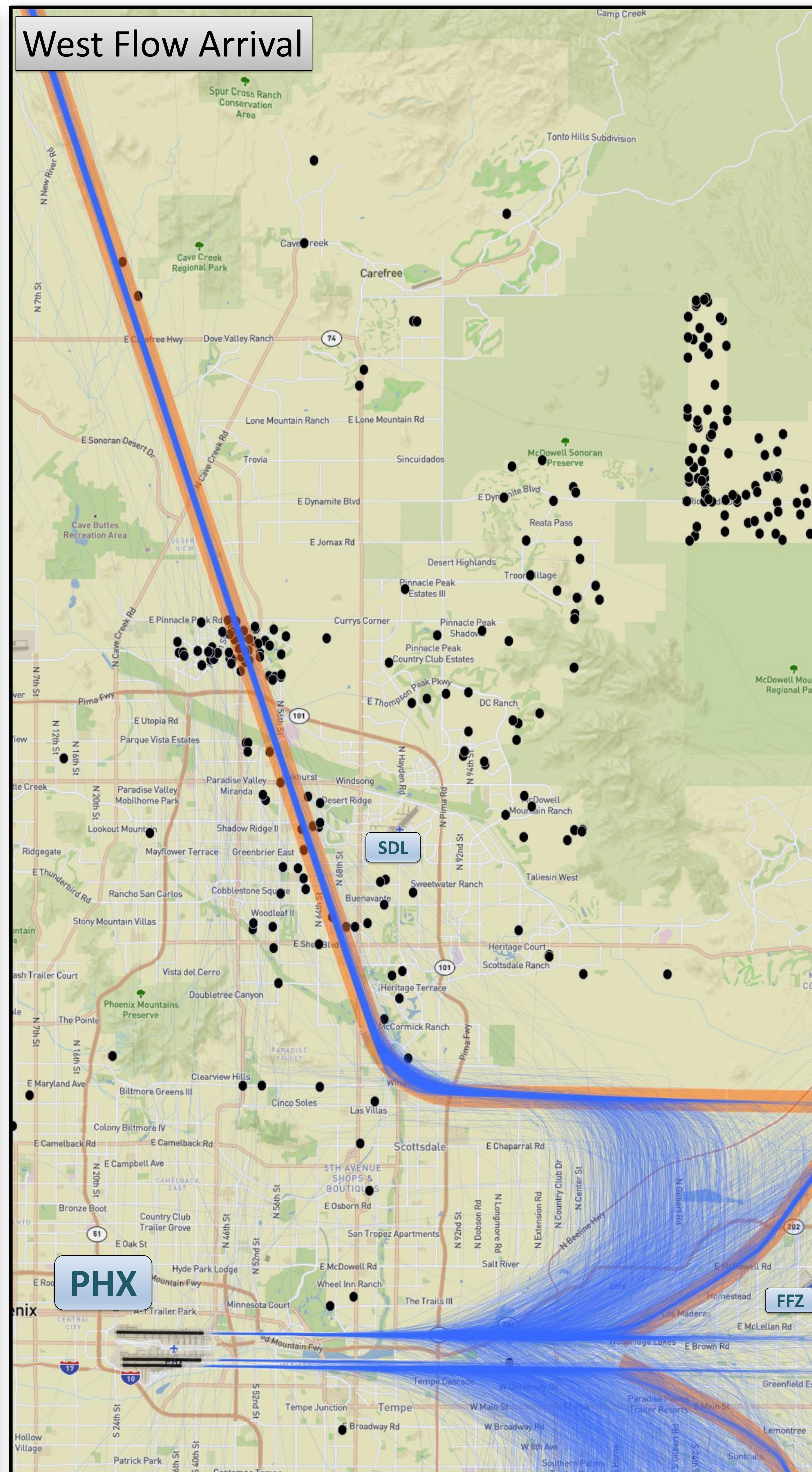
Arrival Routes

Existing Arrival Tracks

East Flow Arrival



West Flow Arrival

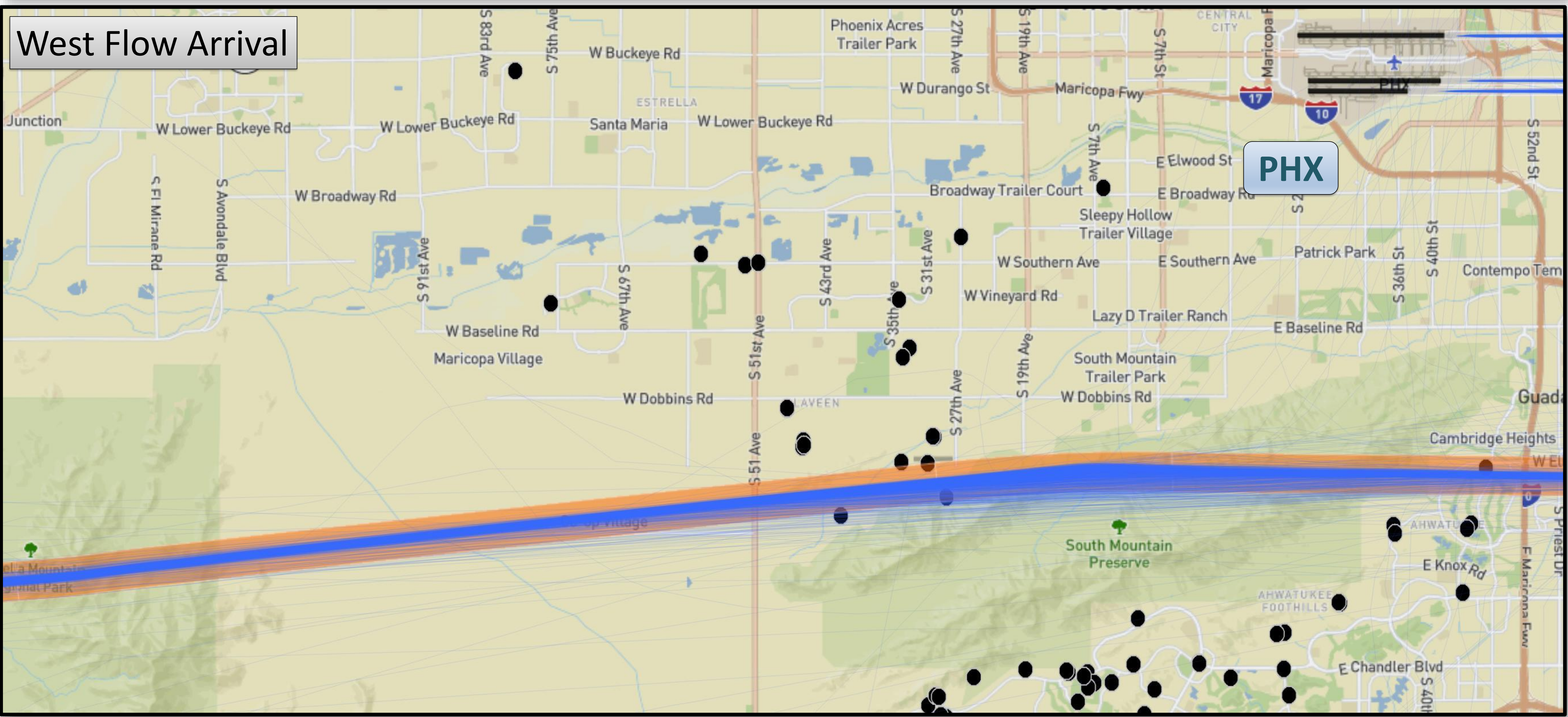
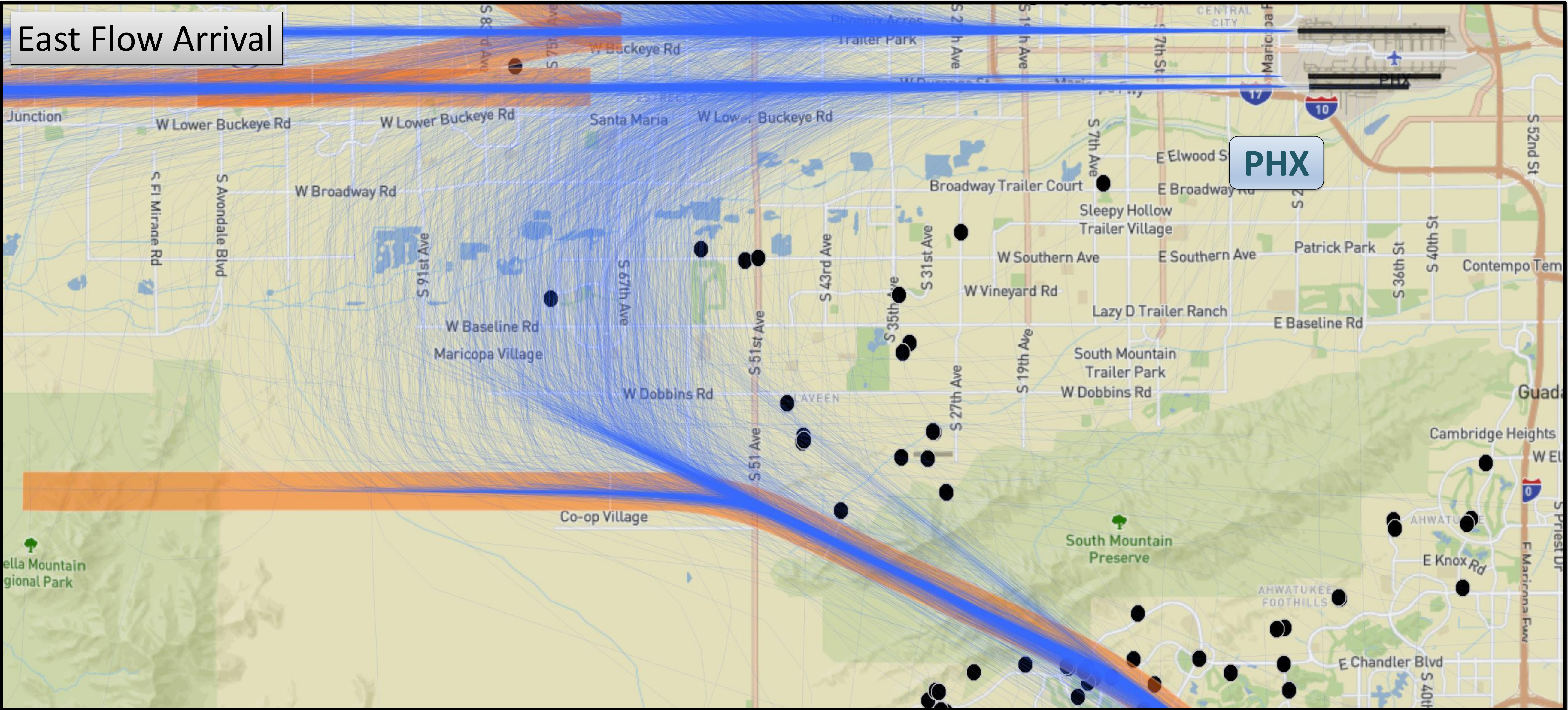


East and West Flow Departures

- This shows existing flight tracks and current departure routes.
- The magenta lines are approximations of flight routes. The lines, and their widths, are not intended to depict precise flight corridors or boundaries.
- There were 493 comments received for Step Two.
- *Note – Comment location dots in close proximity may overlap.*

● All Categories

-  Departure Routes
 Existing Departure Tracks



PHX

Phoenix Sky Harbor International Airport

East and West Flow Arrivals

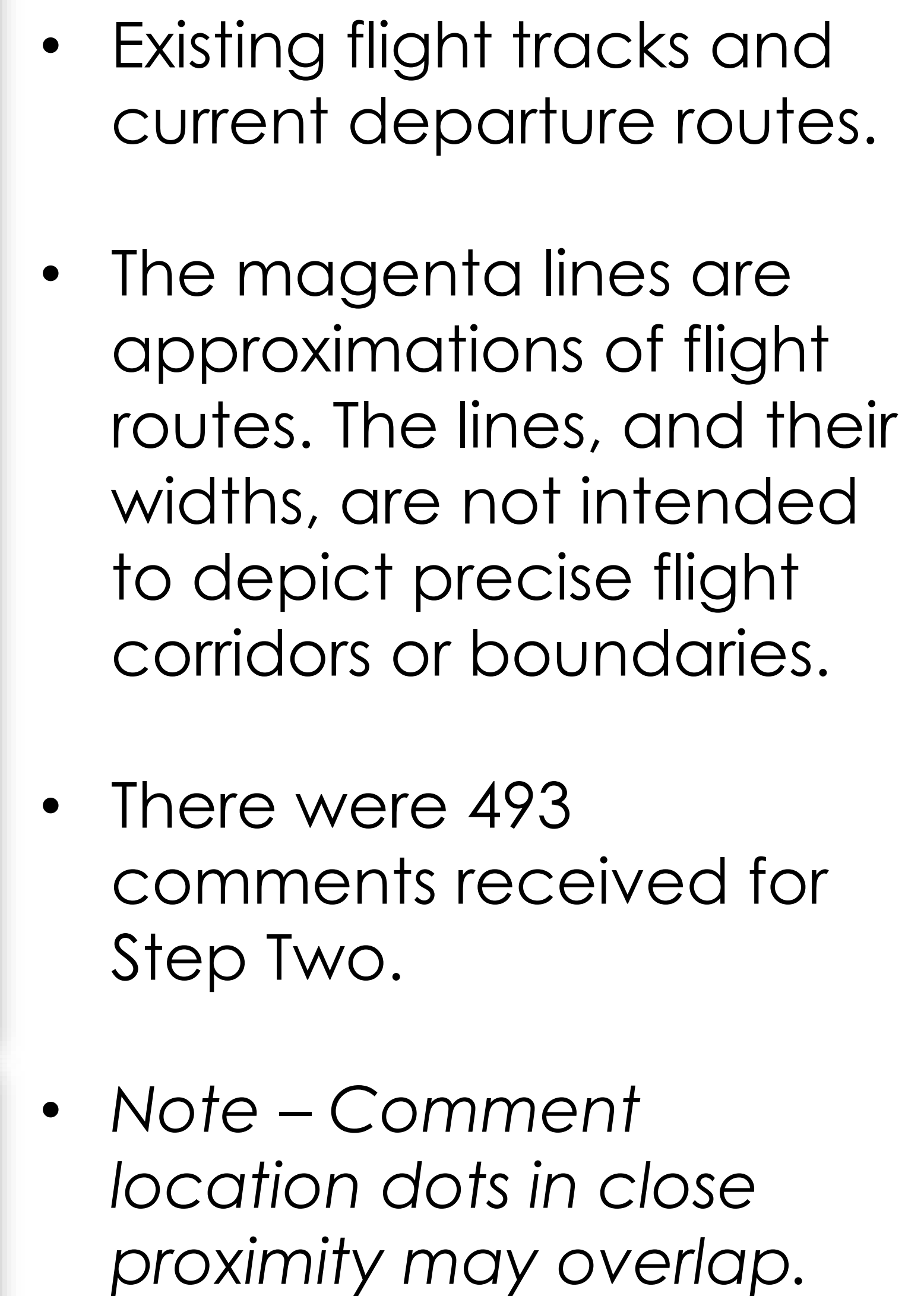
- Existing flight tracks and current arrival routes.
- The orange lines are approximations of flight routes. The lines, and their widths, are not intended to depict precise flight corridors or boundaries.
- There were 493 comments received for Step Two.
- Note – Comment location dots in close proximity may overlap.

Comment Category



● All Categories

Arrival Routes
Existing Arrival Tracks

East and West Flow Departures



● All Categories

 Departure Routes
 Existing Departure Tracks

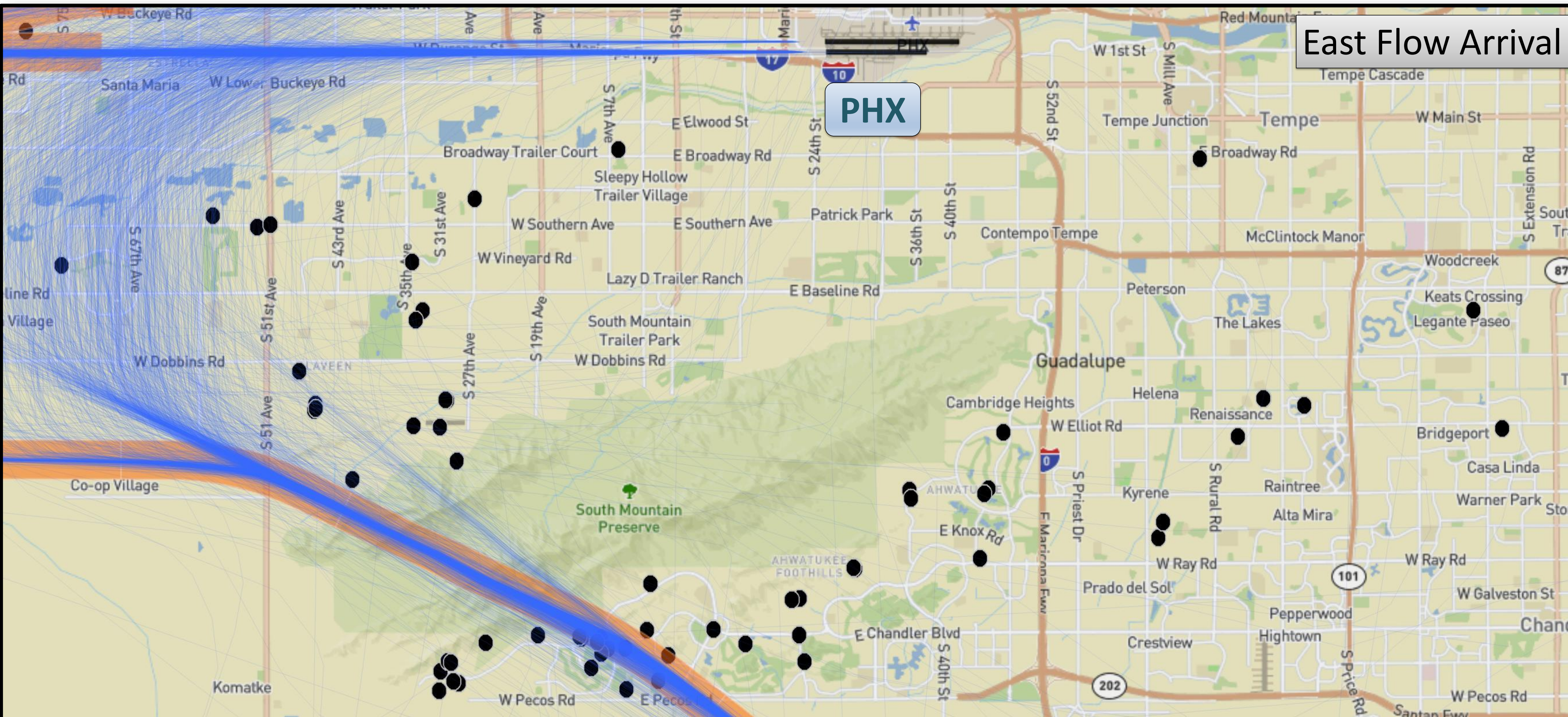
East Flow Arrival

PHX

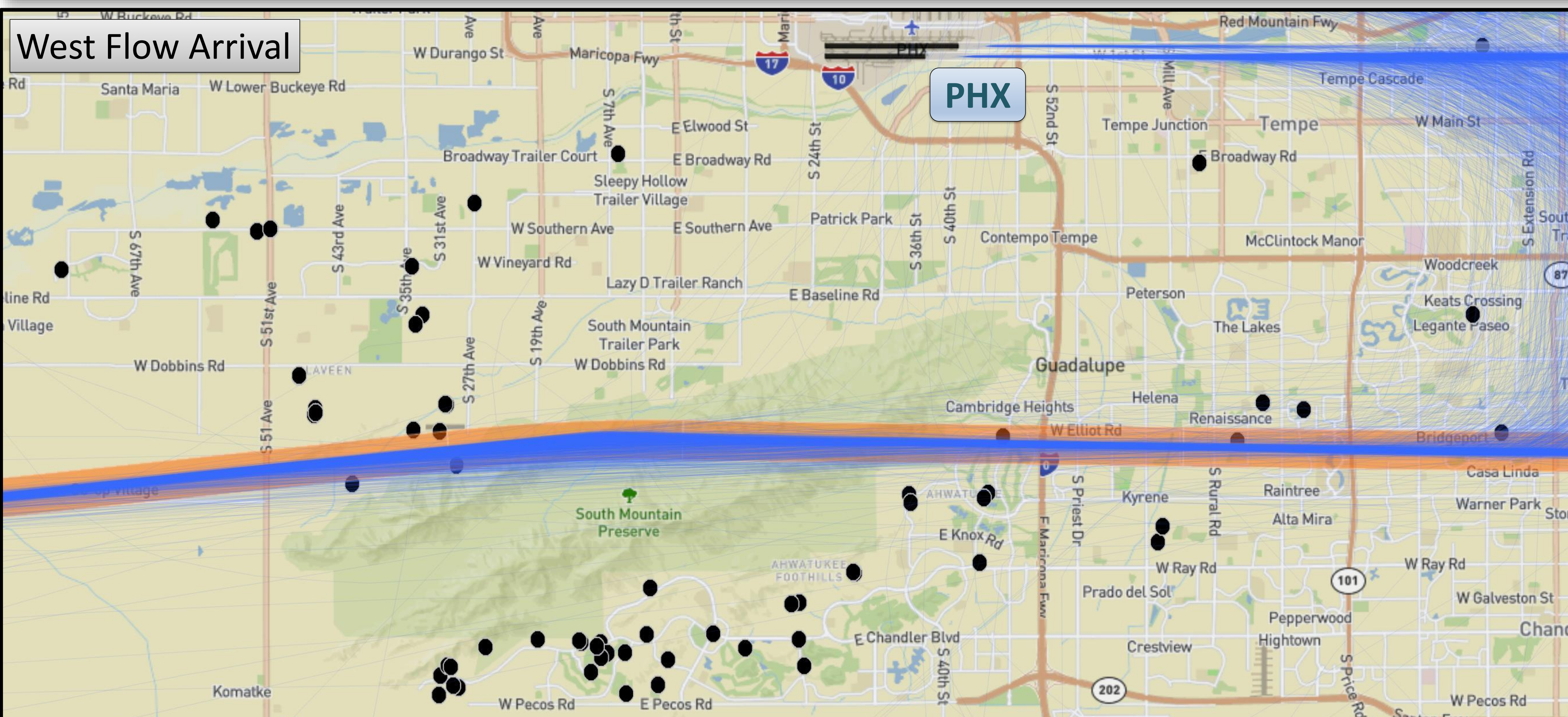
Phoenix Sky Harbor International Airport

East and West Flow Arrivals

- Existing flight tracks and current arrival routes.
- The orange lines are approximations of flight routes. The lines, and their widths, are not intended to depict precise flight corridors or boundaries.
- There were 493 comments received for Step Two.
- Note – Comment location dots in close proximity may overlap.*



West Flow Arrival



Comment Category

● All Categories

Arrival Routes

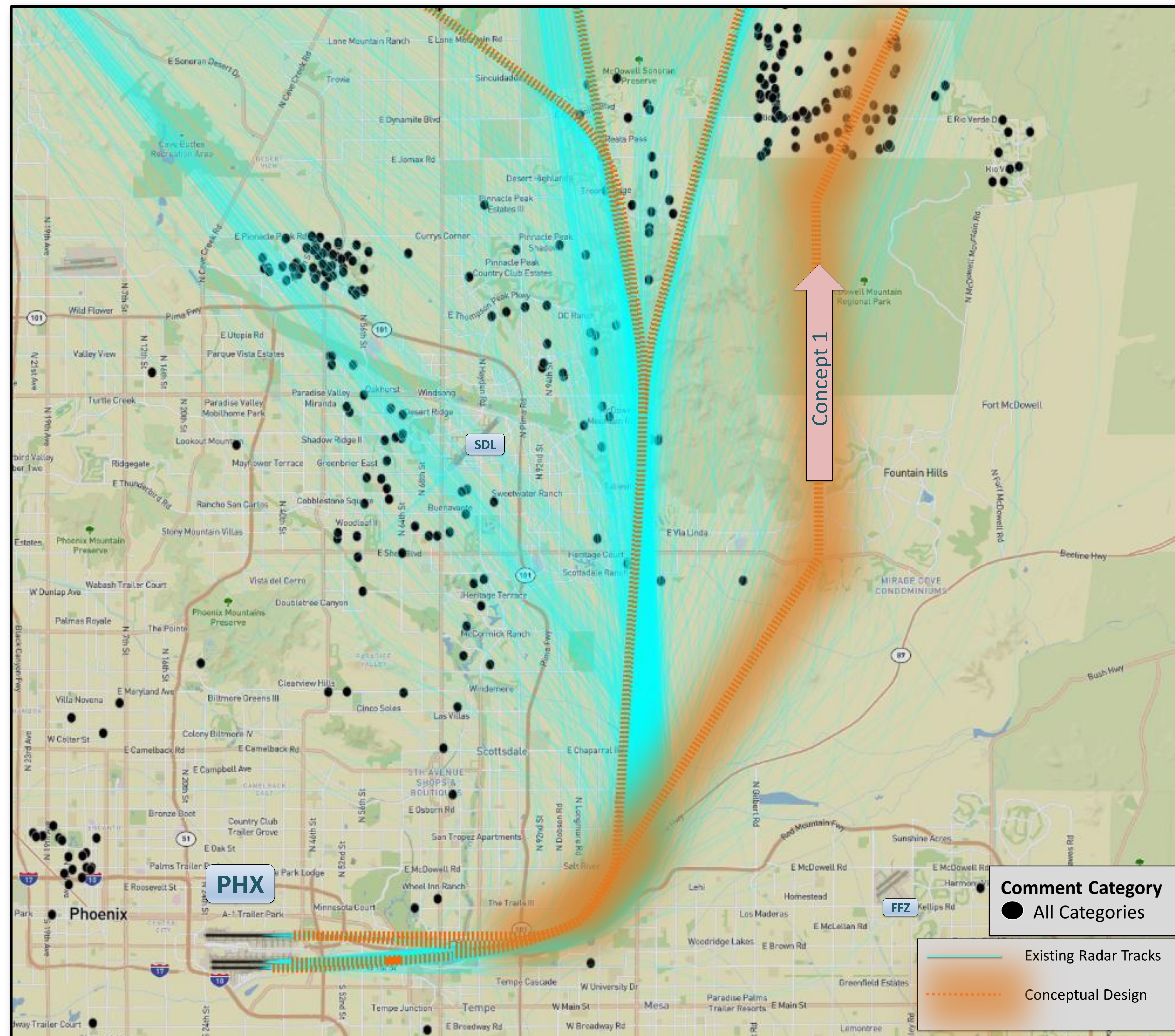
Existing Arrival Tracks

PHX

Phoenix Sky Harbor International Airport

Concept 1 Departures East Flow

- Existing flight tracks and a conceptual design that would affect the departures during east flow operations at PHX that turn to the north and northeast.
- Concept 1 would supplement existing east flow northbound procedures. This would allow roughly 30% of the aircraft to be moved to the east (Concept 1).
- The orange dashed lines represent an approximation of the conceptual design. The width of the orange dashed lines and the shaded edges are not intended to depict a flight corridor or boundary.
- There were 493 comments received for Step Two.
- Note – Comment location dots in close proximity may overlap.*

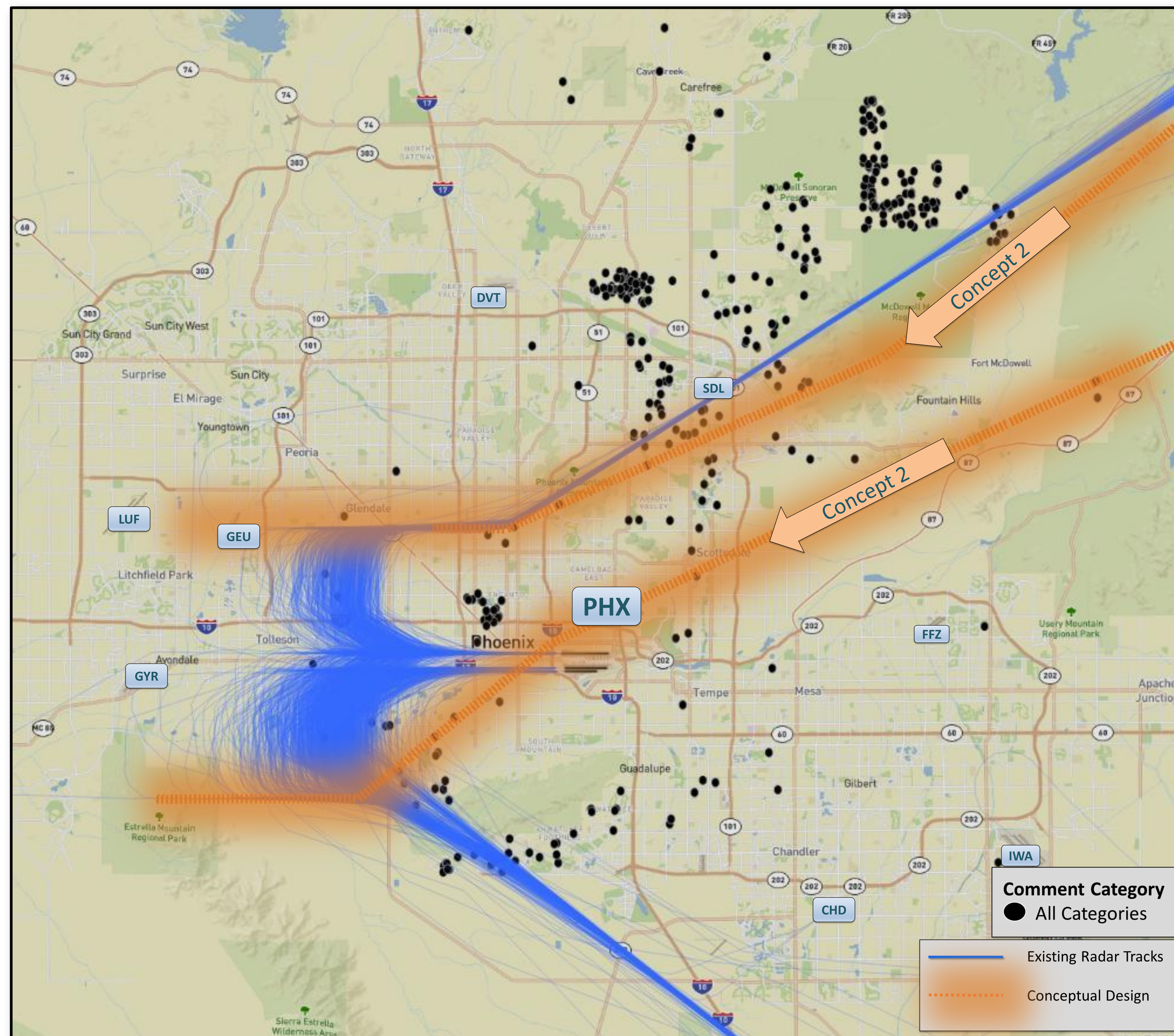


PHX

Phoenix Sky Harbor International Airport

Conceptual Design 2 Arrivals East Flow

- Existing flight tracks and a conceptual design that would affect the arrivals during east flow operations at PHX from the northeast.
- The EAGUL arrival route would be replaced by two new arrival routes. This would allow roughly 30 % of the aircraft currently on the EAGUL route to be moved to the southern most routing.
- The route to the north would be located south of the current EAGUL route prior to the final approach for PHX.
- The route to the south would over-fly just west of PHX before turning north and then east for landing.
- The orange lines are approximations of the conceptual designs. The lines, and their widths, are not intended to depict precise flight corridors or boundaries.
- There were 493 comments received for Step Two.
- Note – Comment location dots in close proximity may overlap.*



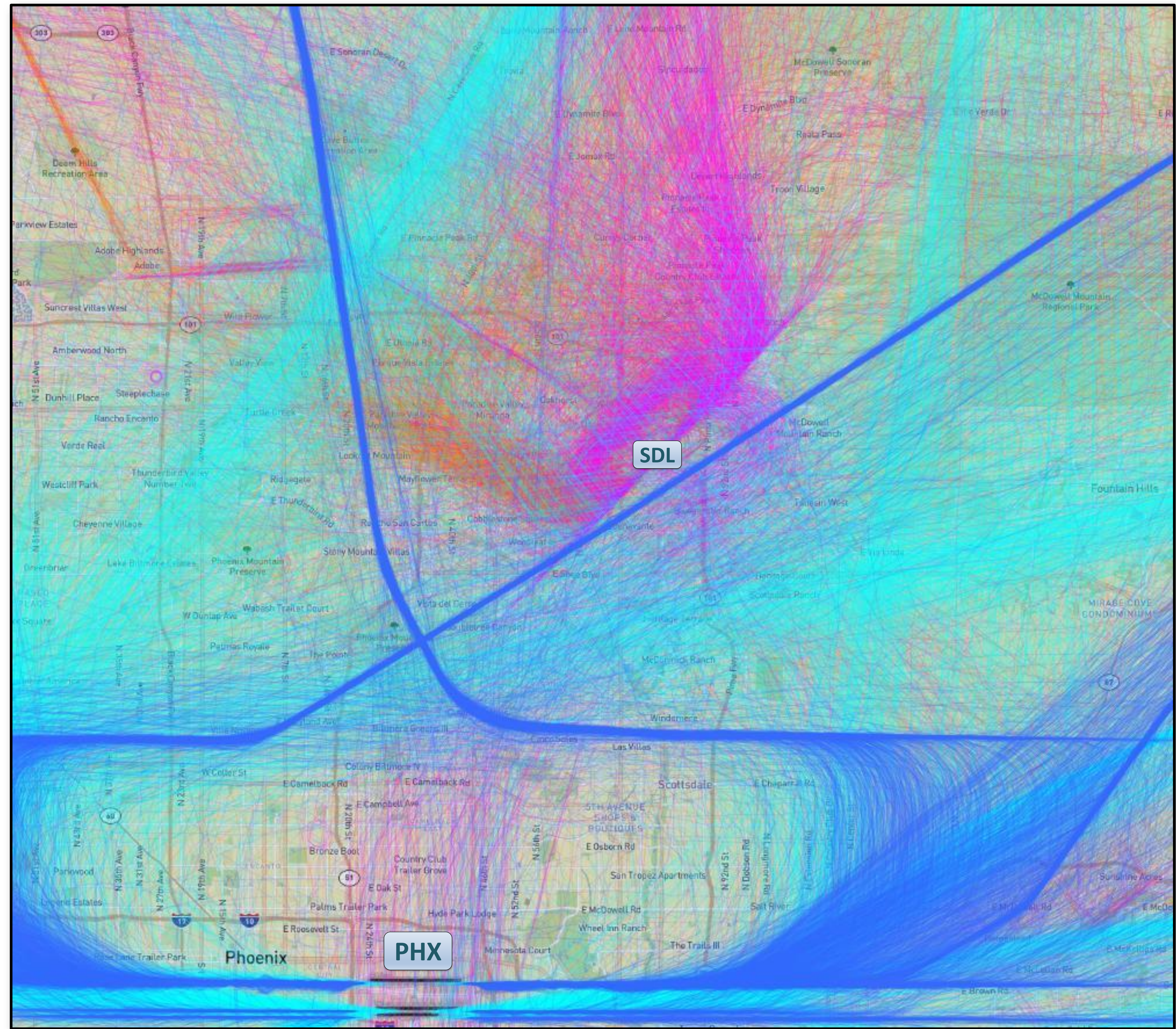


PHX

Phoenix Sky Harbor International Airport

2013 Flight Tracks

- Historical Flight Track Map around Scottsdale Airport
- Seven Days of Operations



- PHX Departures
- PHX Arrivals
- SDL Departures
- SDL Arrivals



PHX

Phoenix Sky Harbor International Airport

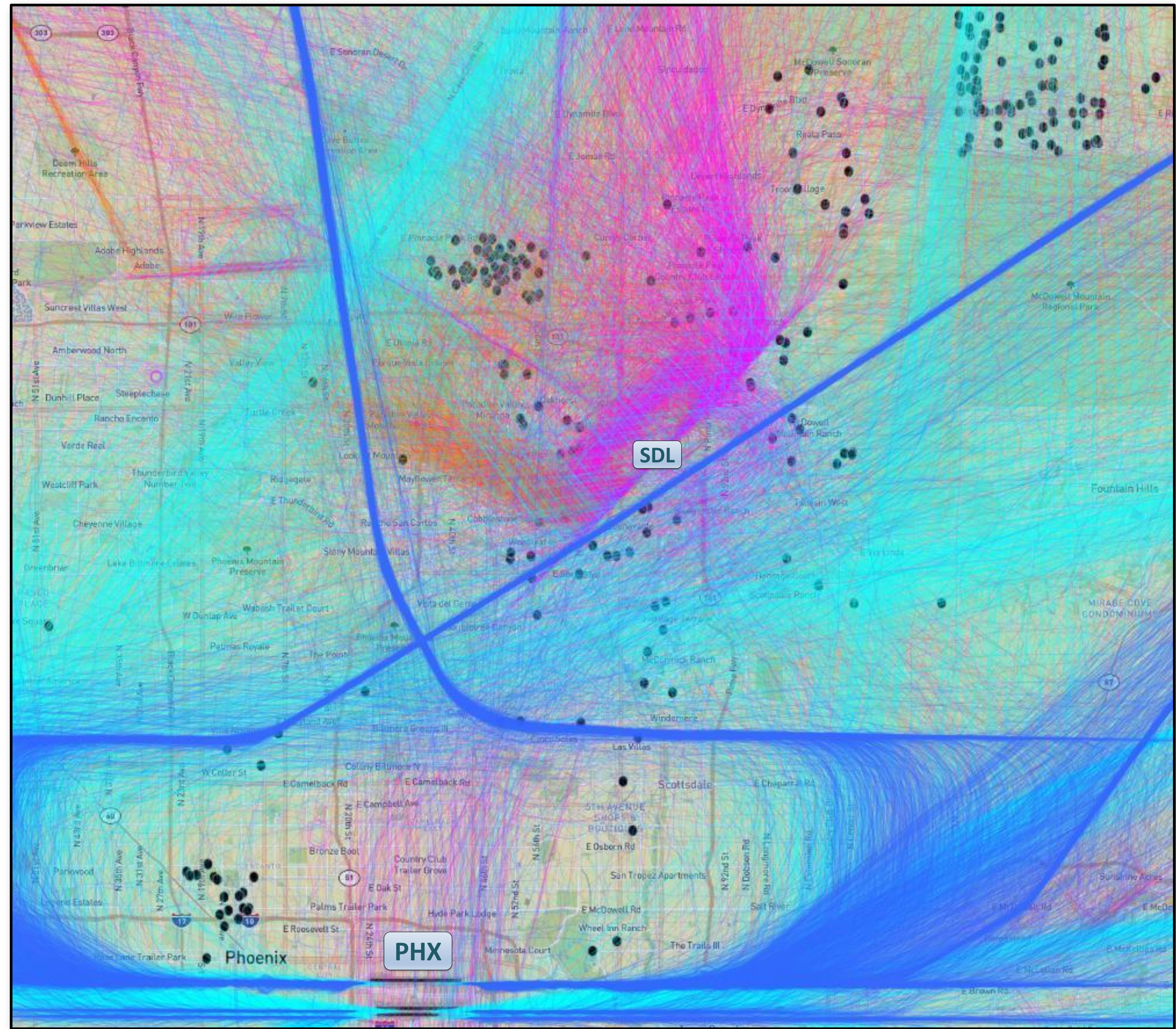
2013 Flight Tracks with Comments

- Historical Flight Track Map around Scottsdale Airport
- Seven Days of Operations
- There were 493 comments received for Step Two.
- *Note – Comment location dots in close proximity may overlap.*

Comment Category

● All Categories

- PHX Departures
- PHX Arrivals
- SDL Departures
- SDL Arrivals



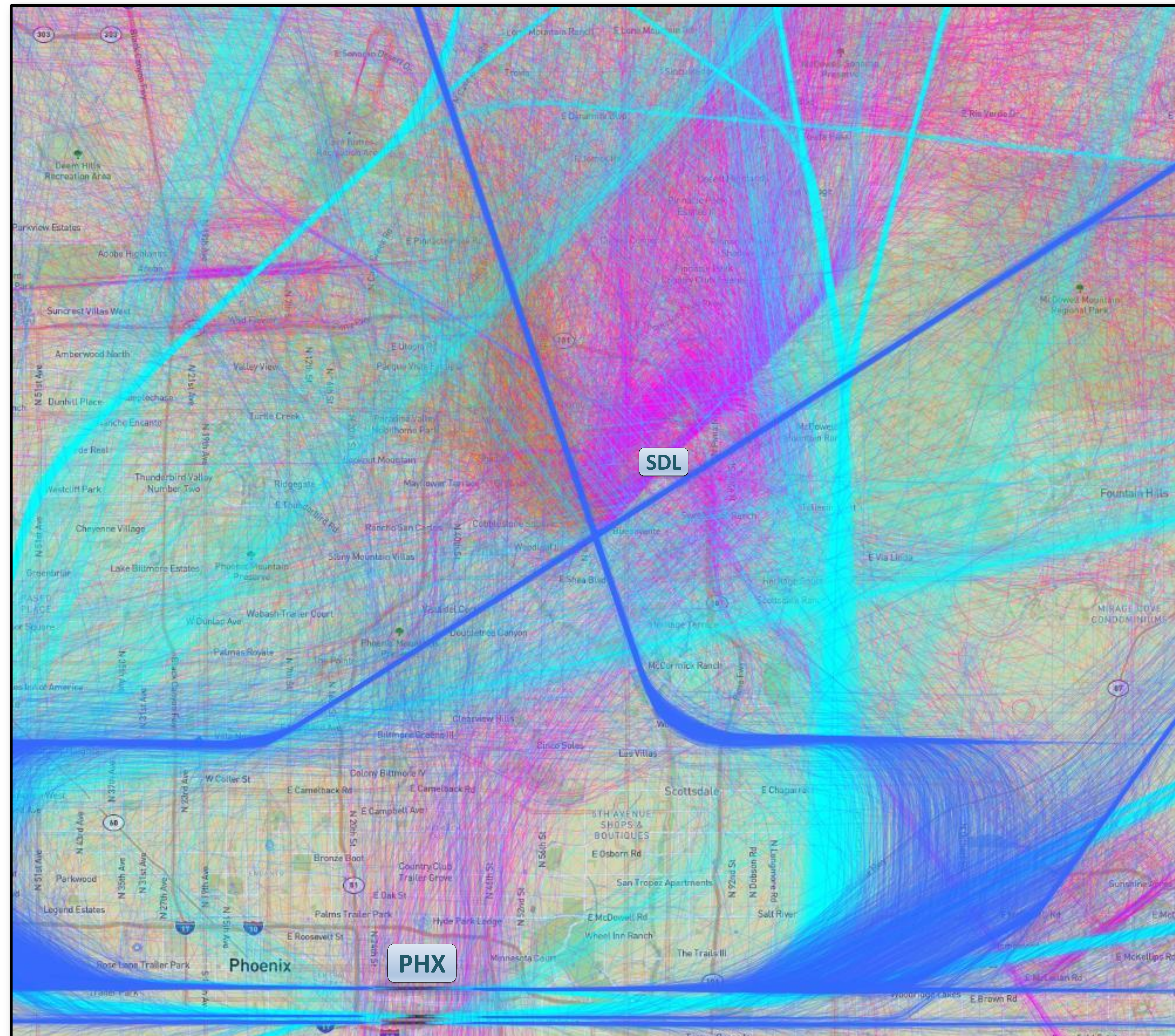


PHX

Phoenix Sky Harbor International Airport

2018 Flight Tracks

- Current Flight Tracks around Scottsdale Airport
- Seven Day of Operations



- PHX Departures
- PHX Arrivals
- SDL Departures
- SDL Arrivals



PHX

Phoenix Sky Harbor International Airport

2018 Flight Tracks with Comments

- Current Flight Tracks around Scottsdale Airport
- Seven Day of Operations
- There were 493 comments received for Step Two.
- *Note – Comment location dots in close proximity may overlap.*

SDL

PHX

Comment Category

● All Categories

- PHX Departures
- PHX Arrivals
- SDL Departures
- SDL Arrivals

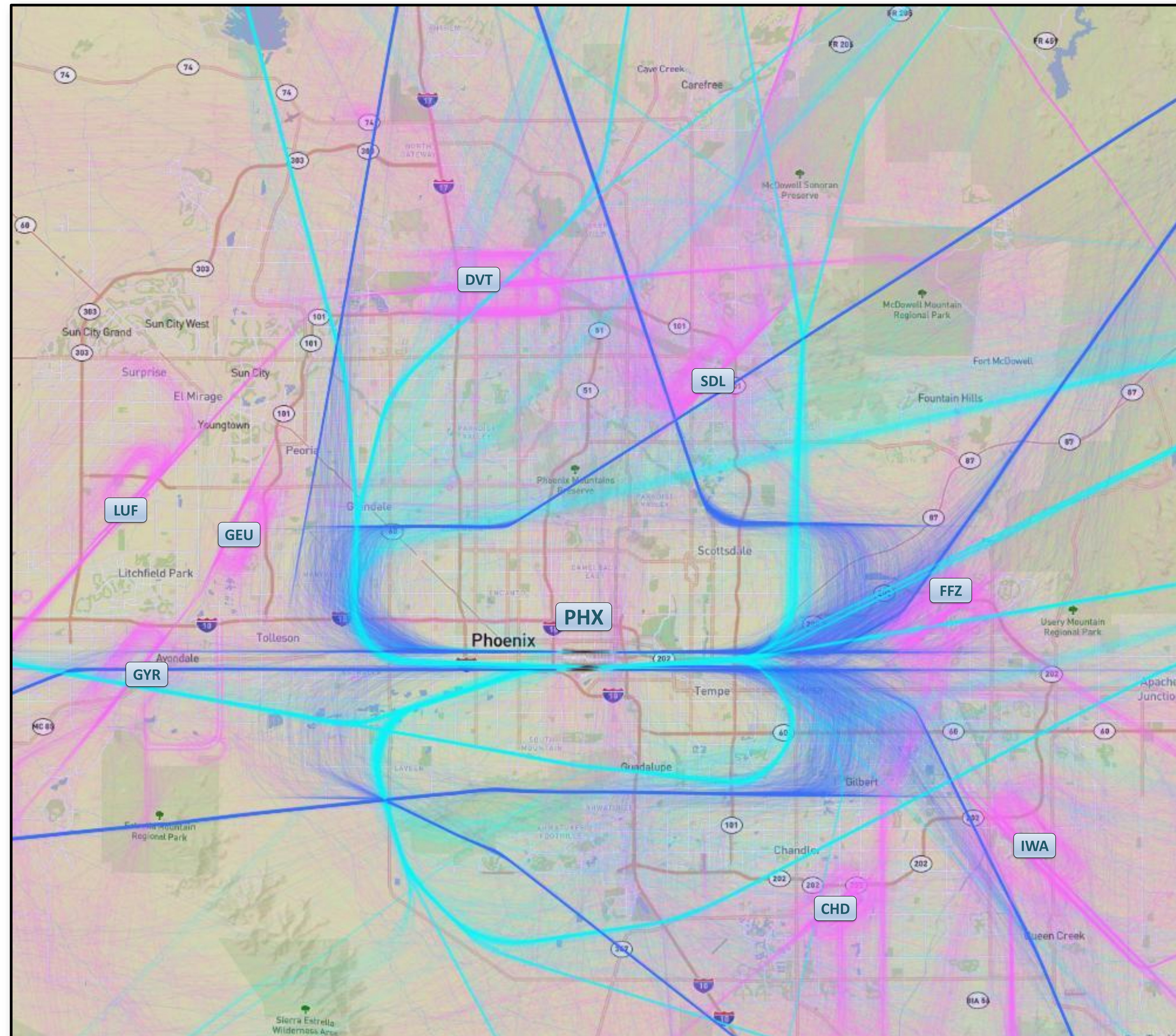


PHX

Phoenix Sky Harbor International Airport

2018 Flight Tracks

- Current Flight Tracks of Phoenix and other airport operations
- Seven Days of Operations





PHX

Phoenix Sky Harbor International Airport

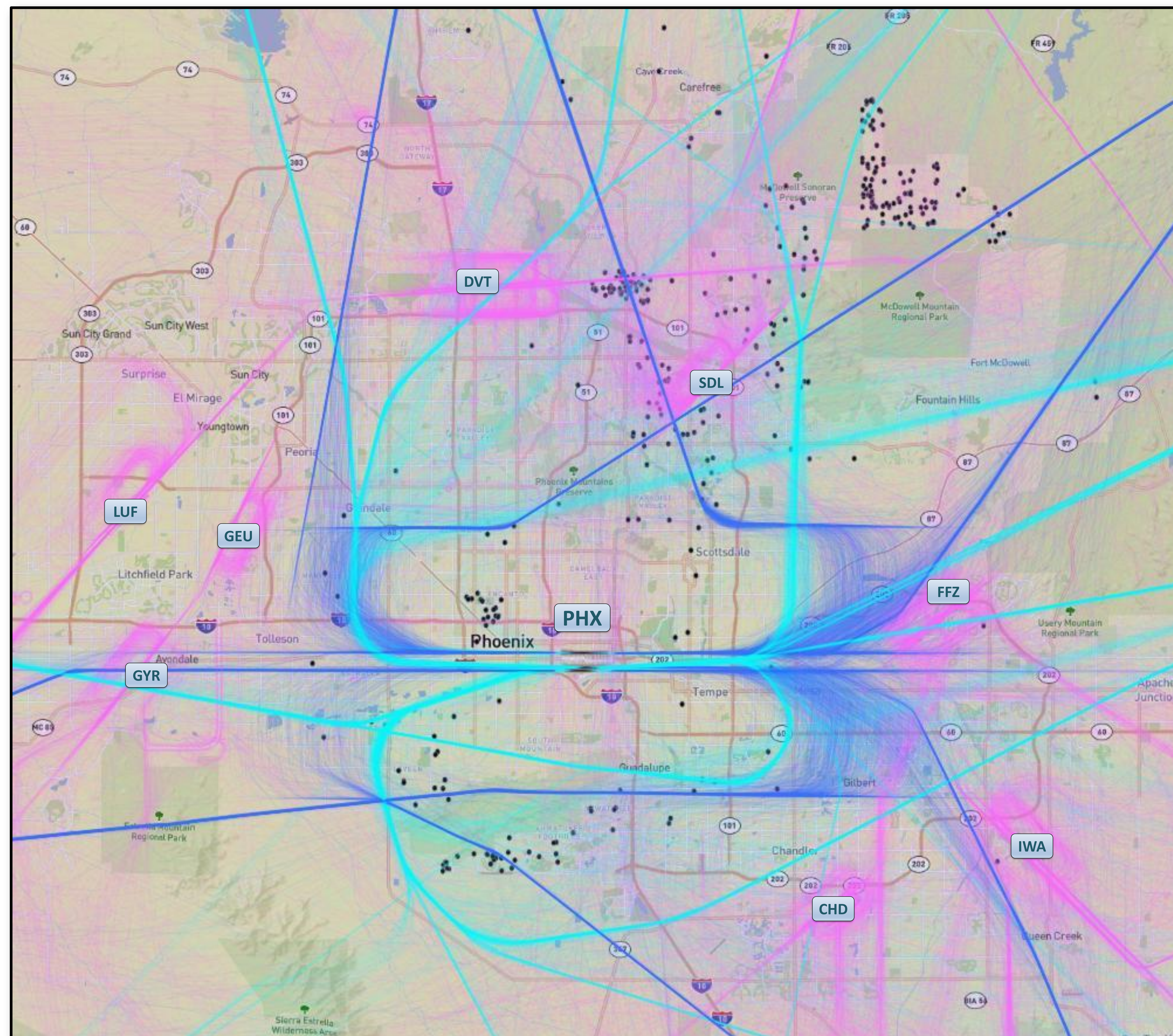
2018 Flight Tracks

- Current Flight Tracks of Phoenix and other airport operation
- Seven Days of Operations
- There were 493 comments received for Step Two.
- *Note – Comment location dots in close proximity may overlap.*

Comment Category

● All Categories

— PHX Departures
— PHX Arrivals
— Other Airport Operations

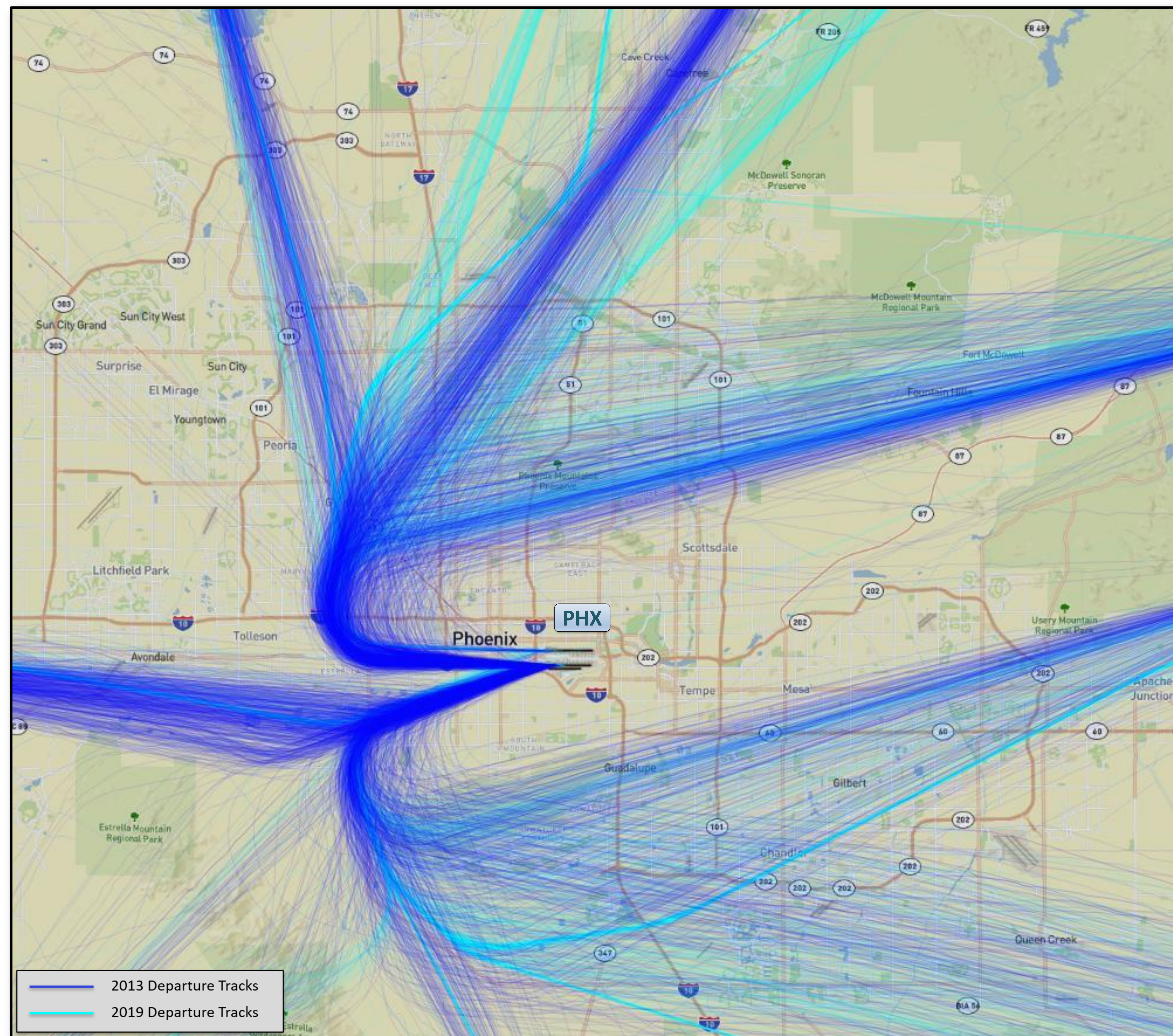


PHX

Phoenix Sky Harbor International Airport

West Flow Departure Tracks

- The dark blue tracks represent departure tracks from 14 days in 2013.
- The light blue tracks represent departure tracks from 14 days in 2019.

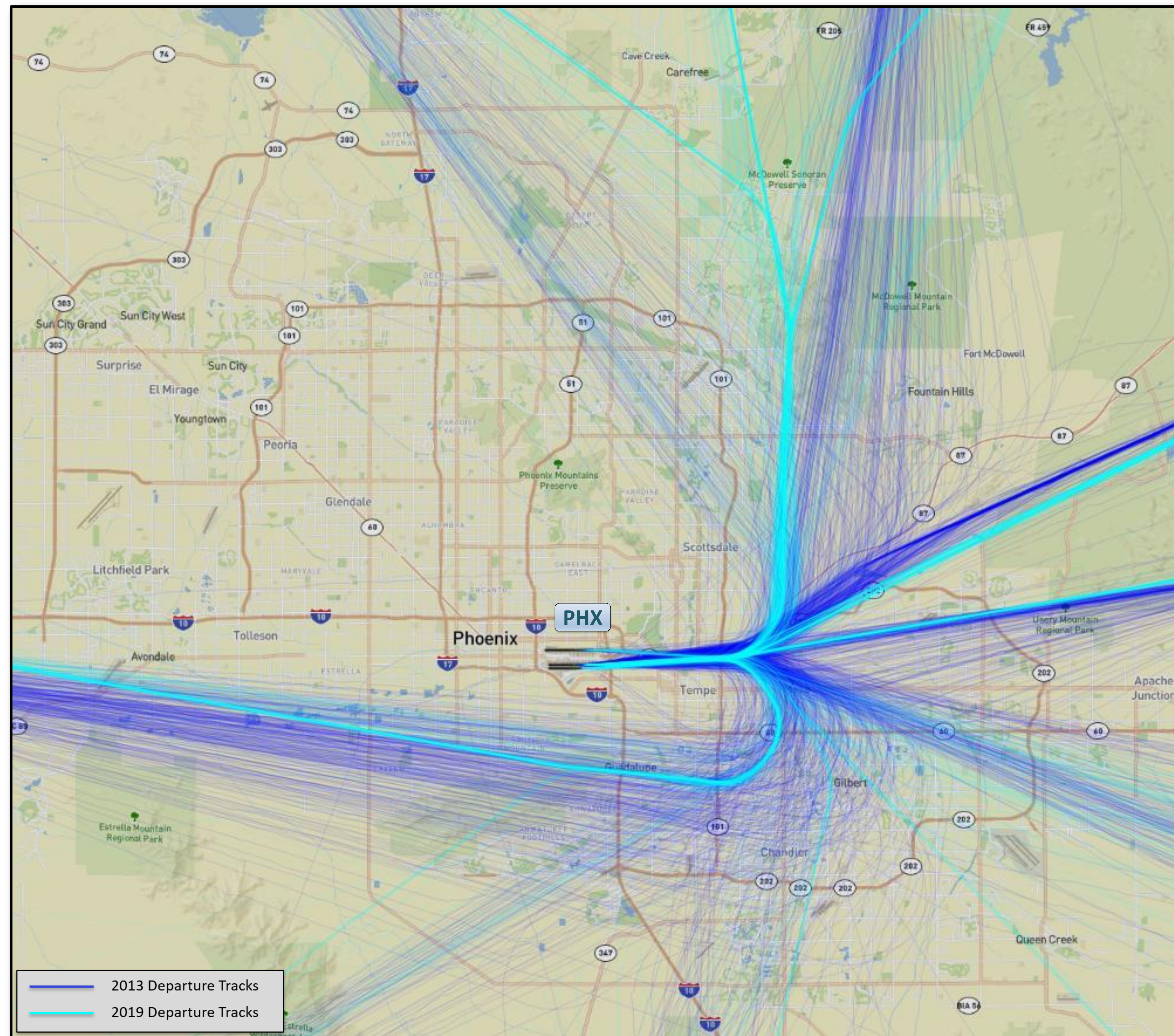


PHX

Phoenix Sky Harbor International Airport

East Flow Departure Tracks

- The dark blue tracks represent departure tracks from 14 days in 2013.
- The light blue tracks represent departure tracks from 14 days in 2019.

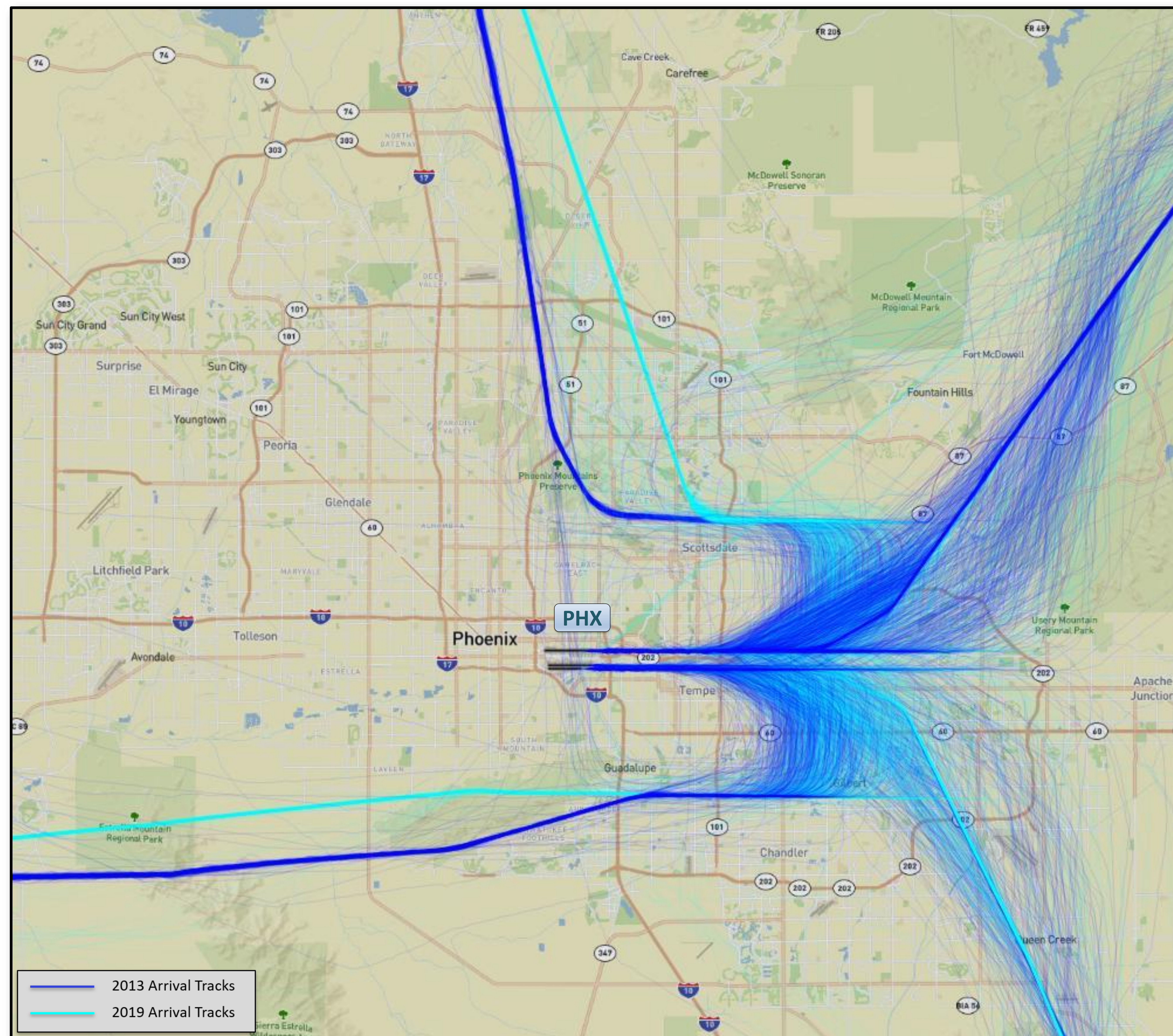


PHX

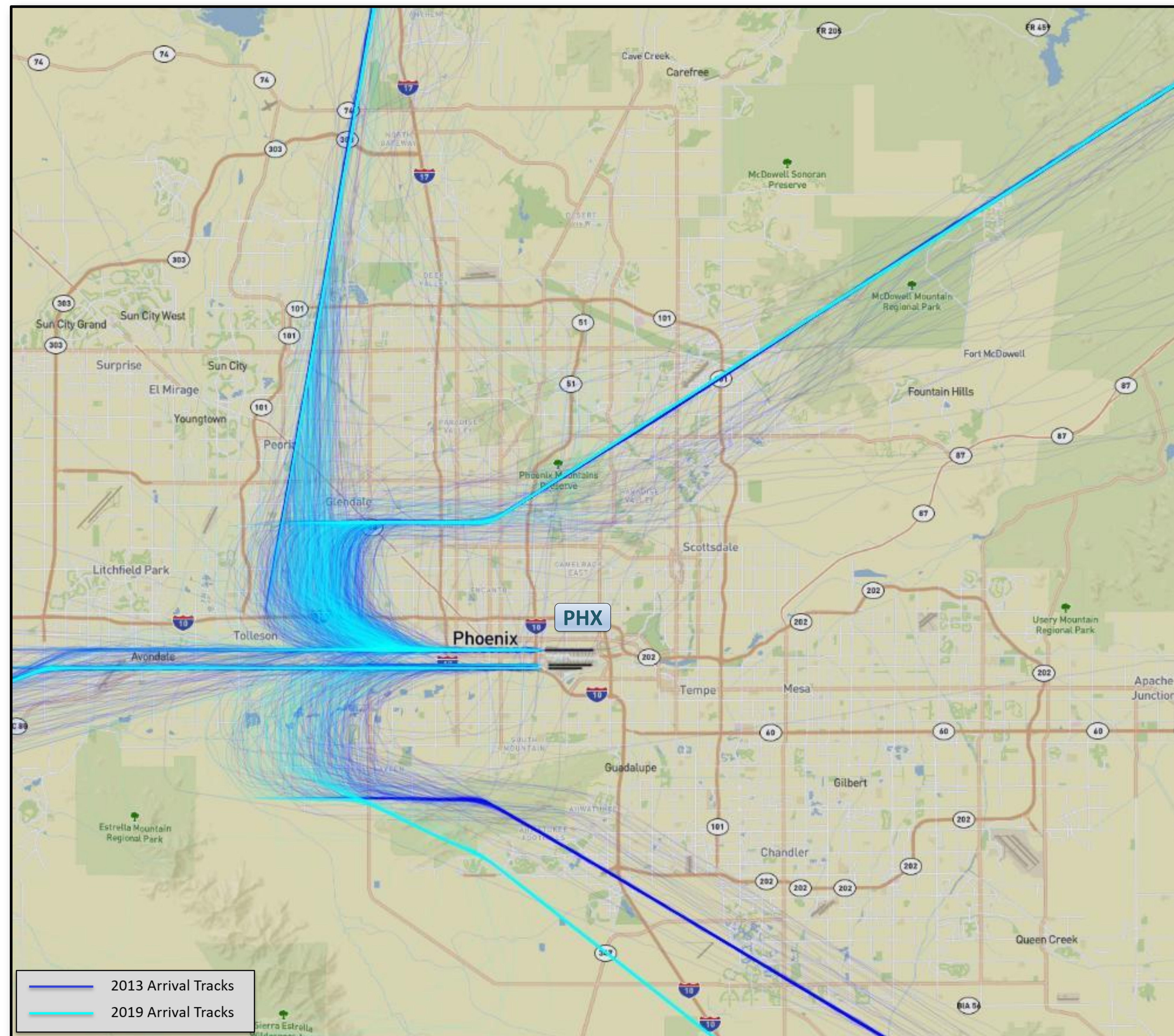
Phoenix Sky Harbor International Airport

West Flow Arrivals Tracks

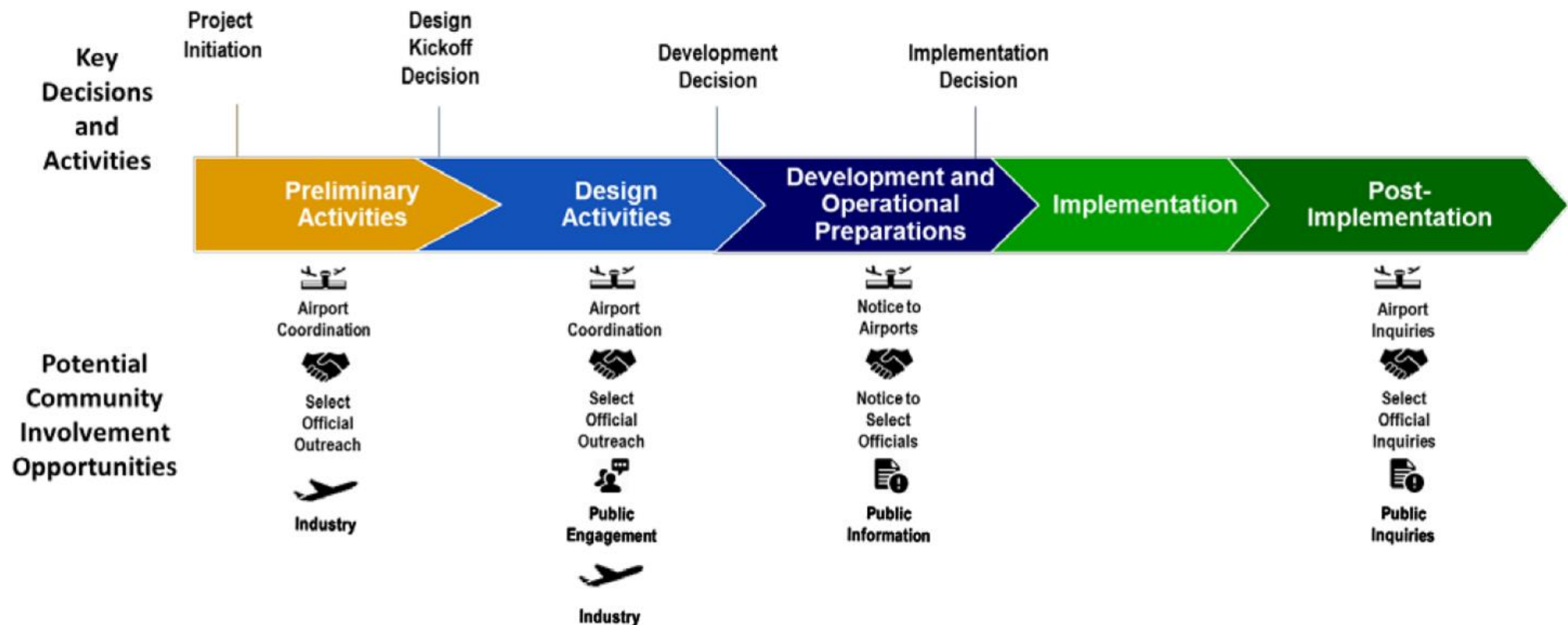
- The dark blue tracks represent arrival tracks from 14 days in 2013.
- The light blue tracks represent arrival tracks from 14 days in 2019.



- The dark blue tracks represent arrival tracks from 14 days in 2013.
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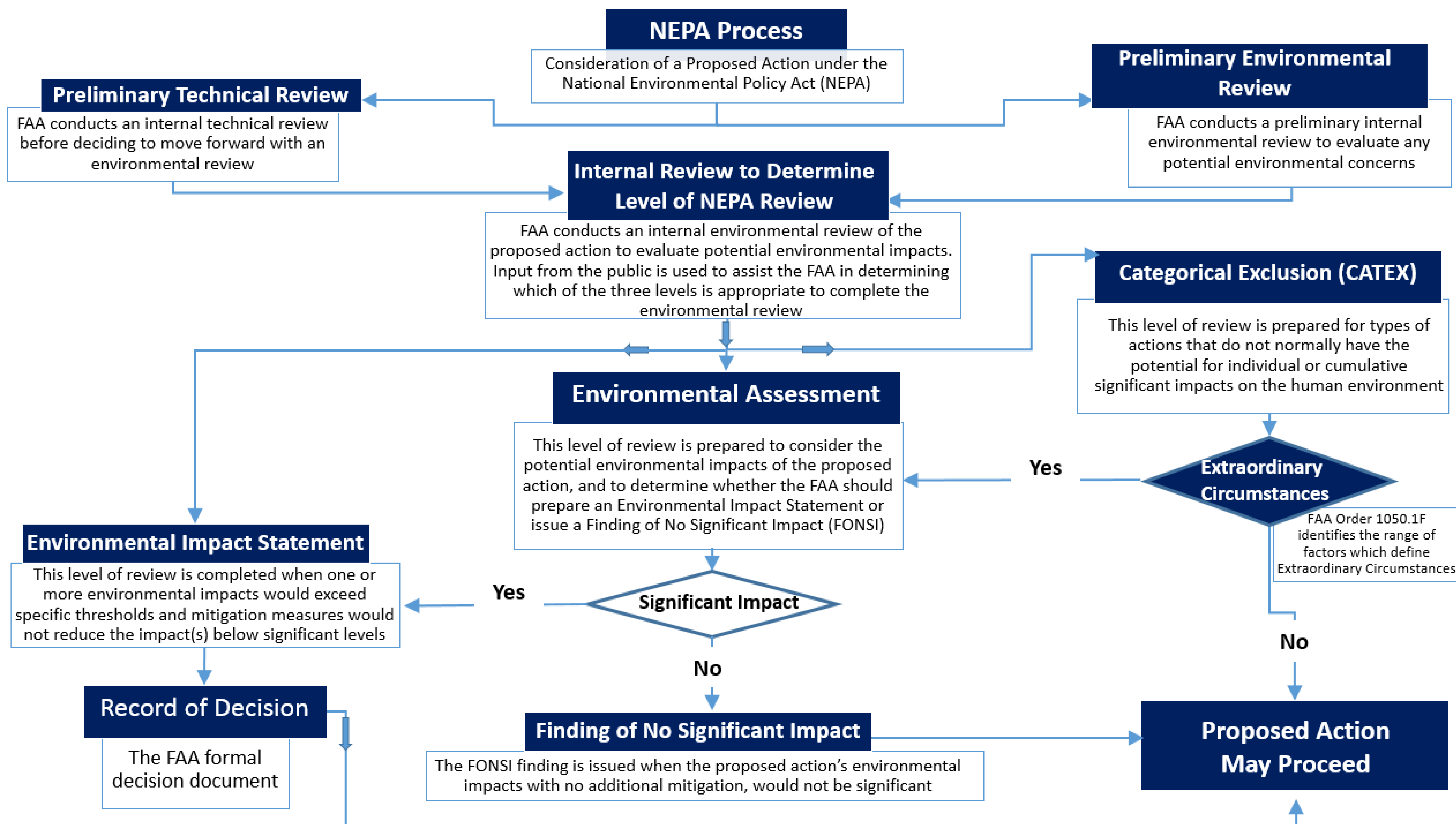
Performance Based Navigation Process



Note: The need for and level of engagement will vary based on project circumstances

Environmental Review Process

This chart shows the environmental steps the FAA would follow if the agency develops any of the conceptual changes



Phoenix Metropolitan Area Airports significance on the local economy

- Phoenix Sky Harbor, Phoenix Deer Valley and Phoenix Goodyear airports have a total impact of:
 - \$38 Billion Economic Impact
 - 269,000 Employment
 - \$13 Billion Annual Payroll
 - Airlines and air cargo firms serving nonstop flights had economic activity estimated as \$281.7 million.

Sources:

- *ECONOMIC IMPACT OF THE PHOENIX AIRPORT SYSTEM Prepared by Seidman Research Institute W. P. Carey School of Business Arizona State University, May 17, 2017*
- *<https://www.skyharbor.com/about/Information/EconomicImpact>*

- Scottsdale Airport/Airpark
 - \$536 Million Economic impact
 - 3,462 Employment
 - \$25 Million Annual Payroll

Source:

- *ECONOMIC BENEFIT ANALYSIS, Appendix D, Scottsdale Airport*